Talon Resources, Inc.



Service, Quality and Accuracy

375 South Carbon Avenue A-10 Suite 101 Price, Utah 84501 Phone: 435-637-8781 435-637-5032 Ext 710/711 Cell: 801-650-1401 801-650-1402 Fax: 435-636-8603 Email: talon@castlenet.com

November 1, 2001

Ms. Lisha Cordova State of Utah Division of Oil Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114-5801

RE: Application for Permit to Drill—SWD #5, Emery County, Utah 101' FSL, 1108' FEL, Section 23, T17S, R8E, SLB&M.

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco), Talon Resources, Inc. respectfully submits the enclosed original of the *Application for Permit to Drill (APD)* for the above referenced well. Included with the APD is the following supplemental information:

Exhibit "A" - Survey plats and layouts of the proposed well site;

Exhibit "B" - Proposed location map with pipe, power, and road corridors;

Exhibit "C" - Drilling site layout;

Exhibit "D" - Drilling Program;

Exhibit "E" - Multi Point Surface Use Plan;

Exhibit "F" - Typical road cross-section;

Exhibit "G" - Typical BOP diagram;

Exhibit "H" - Typical wellhead manifold diagram.

RECEIVED

NOV 0 2 2001

DIVISION OF OIL, GAS AND MINING

Please accept this letter as Texaco Exploration and Production's written request for confidential treatment of all information contained in and pertaining to this application, if said information is eligible for such consideration.

Thank you very much for your timely consideration of this application. Please feel free to contact myself, or Mr. Ian Kephart at Texaco if you have any questions or need additional information.

Sincerely,

Don Hamilton

Environmental Manager / Project Coordinator

cc: Mr. Bryant Anderson, Emery County

Mr. Allen Davis, Texaco

Mr. Chuck Snure, Texaco

Mr. Bob Lamarre, Texaco

Mr. Ian Kephart, Texaco

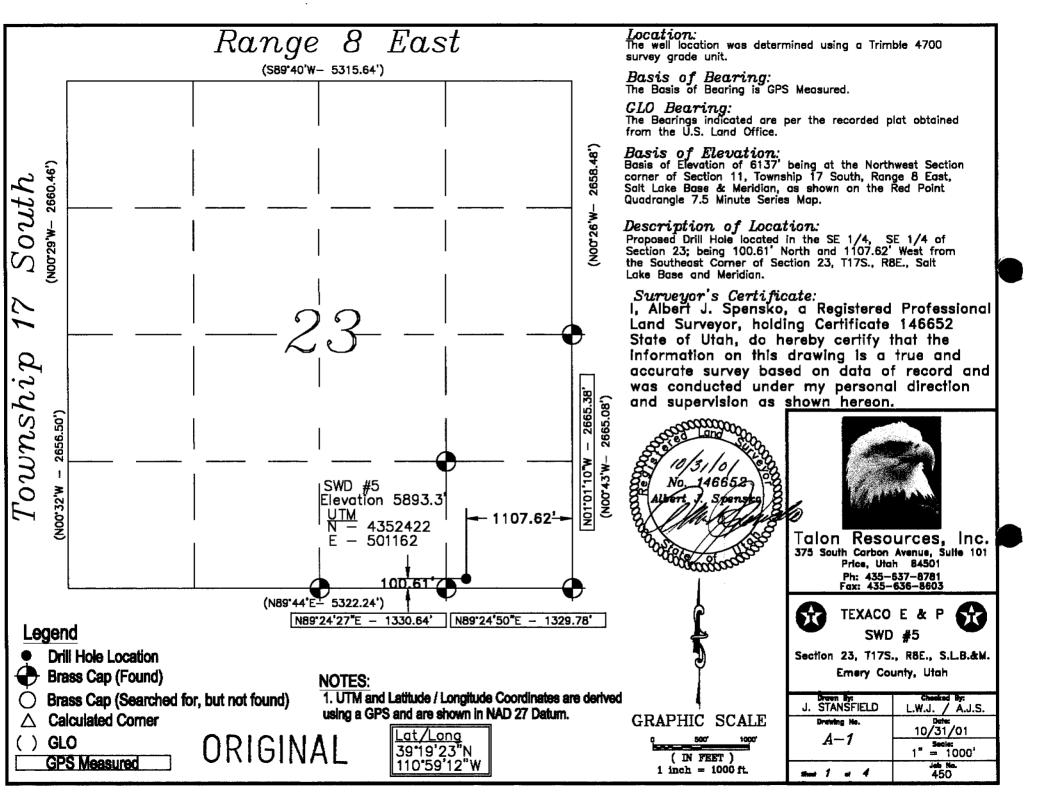
Mr. Roger Johnson, Texaco

Mr. Ron Wirth, Texaco

Texaco Well File

STATE OF UTAH

	DIV //OLONI OF	OUL OAC AND BAU	NII NICO		
	DIVISION OF	5. Lease Designation and Serial Number:			
				Patented 6. If Indian, Allottee or Tribe Name:	
	ATION FOR PER	MIT TO DRILL (OR DEEPEN	N/A	
1A. Type of Work: DRILL DEEPEN				7. Unit Agreement Name:	
		N/A 8. Farm or Lease Name:			
B. Type of Well: OIL	GAS ☐ Water Dis	posal Single Zone	E MULTIPLE ZONE		
2. Name of Operator.				9, Well Number:	
Texaco Exp	loration and Product	ion, Inc.		#5 10. Field or Pool, or Wildcat:	
	Butler, Suite 100, E		7401: 505-325-4	1397 Wildcat	
Location of Well (Footages) At Surface:	101' FSL, 1108' F		4352400 H	11. Qtr/Qtr, Section, Township, Range, Meridian:	
At Proposed Producing 2	· ·	LL	501174E	SE/4 SE/4, Section 23, T17S, R8E, SLB&M	
			,	1173, RoE, SLB&W	
14. Distance in miles and direct	tion from nearest town or post office	· · · · · · · · · · · · · · · · · · ·		12. County: 13. State:	
14. Distance at this said and	0.9 miles southwe		Itah	Emery Utah	
15. Distance to nearest property or lease line (feet):				17. Number of acres assigned to this well:	
	_ 101'	36.46 19. Proposed Depth:		N/A 20. Rotary or cable tools:	
Distance to nearest well, dr completed, or applied for, o	r ⁻	7895°		Rotary	
21. Elevations (show whether to	None DF, RT, GR, etc.):	L /07.)		22. Approximate date work will start:	
	5893' GR			November 2001	
23.	PROP	OSED CASING AN	D CEMENTING PR	ROGRAM	
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT	
17-1/2"	13-3/8" H-40 ST&C	48	300'	375 sacks Class G cement + 2% CaCl ₂ + 0.25 pps cellophane	
12-1/4"	9-5/8" K-55 LT&C	36	3000°	175 sacks Lead, 150 sacks Tail, 10:1 RFC	
8-3/4"	7" N-80 LT&C	23	7895°	775 sacks 50/50 POZ + 1 % B71 (fluid loss)	
				225 sacks Class G cement + 10 % D-44 (salt) +8 % D-20 (gel extend	er)
DESCRIPE DRODOSED ARO	CDAMA Managed in to domest oil	deta on proport productive zone	and proceed new productive a	zone. If proposal is to drill or deepen directionally, give pertinent data or	
subsurface locations and meas	sured and true vertical depths. Give	blowout preventer program, if an	y.*	25/10: II proposed to to a in at a sopport an assuming 3 to post in the annual so	
NOV DIV OF OIL, GA	2001 D			Approved by the Utah Division of Oil, Gas and Mining	
	Ian Kephari	t Dunkapte	Title:	Pradution Engineer Date: 10/3//	/ >/
(This space for state use only API Number Assigned:	" 43-015-30!	 5 <u>/0</u>	Approval:	ORIGINA	1



Operator:

Texaco Exploration and Production, Inc.

Lease and Well Name:

SWD #5

Location:

SE/SE, Section 23, T17S, R8E

9 POINT DRILLING PLAN

All operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil and Gas Orders, the approved plan of operations and the conditions of approval. The operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

1. Surface Formation and Estimated Formation Tops:

Formation Property of the Formation	<u>Depth</u>
Bluegate Shale	100°
Top of "A" coal	1785'
Navajo	6660'
Total Depth	7895'

2. Estimated Depths at Which Oil, Gas, or other Mineral Bearing Zones are Expected to be Encountered:

Expected oil zones:

None

Expected gas zones:

Ferron Coals at 1785'-2070' Ferron Coals at 1785'-2070'

Expected water zones: Expected water zones:

Navajo at 6660'

Expected mineral zones:

None

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and will be cased and cemented. When possible, water flow rates will be measured and samples will be taken and analyzed with the results being submitted to the State. All oil and gas shows will be tested to determine commercial potential.

3. Pressure Control Equipment:

The proposed pressure control equipment consists of the following:

- a. Rotating head
- b. 3000 psi WP hydraulic-operated double ram

(See attached schematic drawings of the BOP and choke manifold)

BOP systems shall be consistent with API RP53 AND Onshore Oil and Gas Order No.2. Pressure tests for the surface casing and all BOP equipment potentially subject to pressure will be conducted before drilling the surface casing shoe. Blowout preventer controls will be installed prior to drilling the surface casing shoe and will

remain in use until the well is completed or abandoned. BOP equipment will be inspected and operated daily to ensure good mechanical working order. The ram preventers shall be inspected and operated each trip (no more than once a day is required).

Pressure tests will be performed on all related well control equipment. Ram type preventers and associated equipment shall be tested using a test plug to full working pressure. The test pressure shall be maintained for at least 10 minutes with no bleed off. The valve on the casing head below the test plug shall be open during the BOP test.

As a minimum, the above pressure test shall be performed when:

- a. The stack is initially installed (prior to drilling out of the surface casing),
- b. Any seal subject to pressure is broken,
- c. Following repairs to any part of the BOP system, and
- d. At 30 day intervals.

All valves shall be tested from the working pressure side with all downstream valves open.

A BOP pit level drill shall be conducted weekly for each drilling crew.

All of the above described tests and drills shall be recorded in the drilling log. Test charts, with individual test results identified, shall be maintained on location while drilling and shall be available upon request.

Drill string safety valves to fit all tools in the drill string shall be maintained on the rig floor while drilling operations are in progress.

4. Casing Program and Auxiliary Equipment:

- a. The following surface casing will be set at 300' in 17 ½" hole: 13 3/8" 48 lb/ft H-40 ST&C.
- b. The following intermediate casing will be set at 3000' in 12 1/4" hole: 9 5/8" 36 lb/ft K-55 LT&C.
- c. The following production casing will be set at 7895' (TD) through the Moenkopi formation in 8 3/4" hole: 7" 23 lb/ft N-80 LT&C.

5. Cement Program:

Surface:

Type and Amount

0' to 300'

375 sks Class G + 2% CaCl2 + 1/4#/sk cellophane flakes

Yield: 1.15 ft³/sk Weight: 15.8 ppg

Intermediate: Type and Amount

600' to 0' 175 sks RFC 10-1 Yield: 1.61 ft³/sk Weight: 14.2 ppg

3000' to 2500' 150 sks RFC 10-1 Yield: 1.61 ft³/sk Weight: 14.2 ppg

<u>Production:</u> <u>Type and Amount</u>

6500'-0' 775 sks 50/50 POZ Yield: 1.91 ft³/sk Weight: 12.5 ppg

+ 1% B71 (Fluid loss)

7895'-6500' 225 sks Class G Yield: 1.15 ft³/sk Weight: 15.8 ppg

+ 10% D44 (salt), 8% D20 (gel extender)

(The above volumes assume 50% excess over gauge hole)

6. Mud Program:

Interval	Mud Type	Mud Weight	<u>Viscosity</u>
0'-300'	FW/Gel	8.4-8.7	N/A
300'-3000'	Air	N/A	N/A
3000'-TD	LSND	8.8-9.4	N/A

The Blooie line will be approximately 100' in length and will extend in a straight line from below the rotating head as shown in the attached Rig Layout schematic. An automatic spark-type igniter will be affixed to the end of the blooie line and set to provide a continuous spark to ignite and burn any produced hydrocarbon gas.

7. Coring, Logging and Testing Program:

- a. No drill stem test is planned.
- b. No coring is planned
- c. The logging will consist of a GR-CNL-LDT from 2000' to TD, and an AITH (array induction) log from base of intermediate casing to TD.

8. Abnormal Conditions, Bottom-Hole Pressures and Potential Hazards:

- a. The maximum anticipated bottom-hole pressure gradient in any of the zones is
 8.33 ppg (fresh water gradient).
- b. Some lost circulation is a potential hazard in the Ferron coal section.
- c. No abnormal temperatures are anticipated.
- d. No H₂S is anticipated.

9. Lessee's Operator's Representatives:

Permit Matters
Texaco Exploration and Production, Inc.
Ron Wirth
Production Supervisor
P.O. Box 618
Orangeville, UT 84537
(435) 748-5395 ext. 1

Drilling and Completion Matters
Texaco Exploration and Production, Inc.
Dave Wojahn
Drilling Engineer
4601 DTC Boulevard
(303) 793-4918

EXHIBIT "E" Multipoint Surface Use Plan

Attached to UDOGM Form 3
Texaco Exploration and Production, Inc.
SWD #5
SE/4 SE/4, Sec. 23, T17S, R8E, SLB & M
101' FSL, 1108' FEL
Emery County, Utah

1. Existing Roads

- a. The proposed access road will encroach the West Flat Road (County Road #308) in which verbal approval to construct and encroach has been received but a final written approval is pending from the Emery County Road Department (see Exhibit "B").
- b. We do not plan to change, alter or improve upon any other existing state or county roads. Existing roads will be maintained in the same or better condition.

2. Planned Access

- a. Approximately 900' of new access is required (see Exhibit "B").
- b. Maximum Width: 20' travel surface with a 27' base.
- c. Maximum grade: 10%.
- c. Turnouts: None.
- d. Drainage design: approximately 2 18" culverts may be required. Water will be diverted away from the planned access as necessary and practical.
- e. If the well is productive, the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate year-round traffic.

3. Location of Existing Wells

a. There are two proposed production wells and no existing production wells within a one mile radius of the proposed well site (see Exhibit "B").

4. Location of Existing and/or Proposed Facilities

- a. Once the well is drilled, installation of disposal facilities will follow.
- b. Buried powerlines and feed lines will follow the proposed access road and connect to the SWD #4 well site (see Exhibit "B").
- c. Rehabilitation of all pad areas not used for disposal facilities will be made in accordance with landowner stipulations.

5. Location and Type of Water Supply

- a. Water to be used for drilling will be obtained from a local water source (probably North Emery Water Users Association, a local source of municipal water).
- b. Water will be transported by truck over approved access roads.
- c. No water well is to be drilled for this location.

6. Source of Construction Materials

- a. All necessary construction materials needed will be obtained locally and hauled to the location on existing roads.
- b. No construction or surfacing materials will be taken from Federal/Indian land.

7. Methods for handling waste disposal

- a. The 10' deep reserve pit will be constructed with a minimum of one-half the total depth below the original ground surface on the lowest point within the pit and will be lined. Three sides of the reserve pit will be fenced within 24 hours after completion of construction and the fourth side within 24 hours after drilling operation cease with four strands of barbed wire, or woven wire topped with barbed wire to a height of not less than four feet. The fence will be kept in good repair while the pit is drying.
- b. Following drilling, the liquid waste will be evaporated from the pit and the pit backfilled and returned to natural grade. No liquid hydrocarbons will be discharged to the reserve pit or pad location
- c. In the event fluids are produced, any oil will be retained in tankage until sold and any water produced will be retained until its quality can be determined. The quality and quantity of the water will determine the method of disposal.
- d. Trash will be contained in a portable metal container and will be hauled from location periodically and disposed of at an approved disposal site. Chemical toilets will be placed on location and sewage will be disposed of at an appropriate disposal site.

8. Ancillary Facilities

a. We anticipate no need for ancillary facilities with the exception of one trailer to be located on the drill site.

9. Wellsite Layout

- a. Available topsoil will be removed from the location and stockpiled. The location of mud tanks, reserve and bermed pits, and soil stockpiles will be located as shown on Exhibit "C".
- b. A blooie pit will be located 100' from the drill hole. A line will be placed on the surface from the center hole to the bermed pit. The bermed pit will not be lined, but will be fenced on four sides to protect livestock/wildlife.
- c. Access to the well pad will be as shown on Exhibit "B".
- d. Natural runoff will be diverted around the well pad.

10. Plans for Restoration of Surface

- a. All surface areas not required for disposal operations will be graded to as near original condition as possible and recontoured to minimize possible erosion.
- b. Available topsoil will be stockpiled and will be evenly distributed over the disturbed areas and the area will be reseeded as prescribed by the landowner.
- c. Pits and any other area that would present a hazard to wildlife or livestock will be fenced off when the rig is released and removed.
- d. Any oil accumulation on the pit will be removed or overhead flagged as dictated by the existing conditions.
- e. Once the well is drilled and an approved UIC permit has been received the road will be surfaced and maintained as necessary to prevent soil erosion and accommodate yearround traffic.

11. Surface Ownership

a. The wellsite will be constructed on lands presently owned by the Lynn C. Sitterud, 40 South 400 West, Huntington, Utah 84526; 435-687-9341. Texaco is presently negotiating the purchase of the land from Lynn C. Sitterud The operator shall contact the landowner and the Division of Oil, Gas and Mining 48 hours prior to beginning construction activities.

12. Other Information:

- a. The primary surface use is wildlife habitat. The nearest dwelling is approximately 1,600' northwest. Nearest live water is Huntington Canal approximately 275' northeast.
- b. If there is snow on the ground when construction begins, it will be removed before the soil is disturbed, and piled downhill from the topsoil stockpile location.
- c. The backslope and foreslope will be constructed no steeper than 4:1.
- d. All equipment and vehicles will be confined to the access road and well pad.
- e. A complete copy of the approved Application for Permit to Drill (APD) including conditions and stipulations, shall be at the well site during construction and drilling operations.
- f. There will be no deviation from the proposed construction, drilling, and/or workover program without prior approval from the Division of Oil, Gas & Mining.
- g. During the completion of the well Texaco Exploration and Production, Inc. will file an application for Underground Injection Control Permit.

13. Company Representatives

Ian Kephart
Texaco Exploration and Production, Inc.
3300 North Butler Suite 100
Farmington, New Mexico 87401
(505)325-4397

Ron D. Wirth
Texaco Exploration and Production, Inc.
P.O. Box 618
Orangeville, Utah 84537
(435) 748-5395

Mail Approved A.P.D. To:

Company Representatives

Excavation Contractor

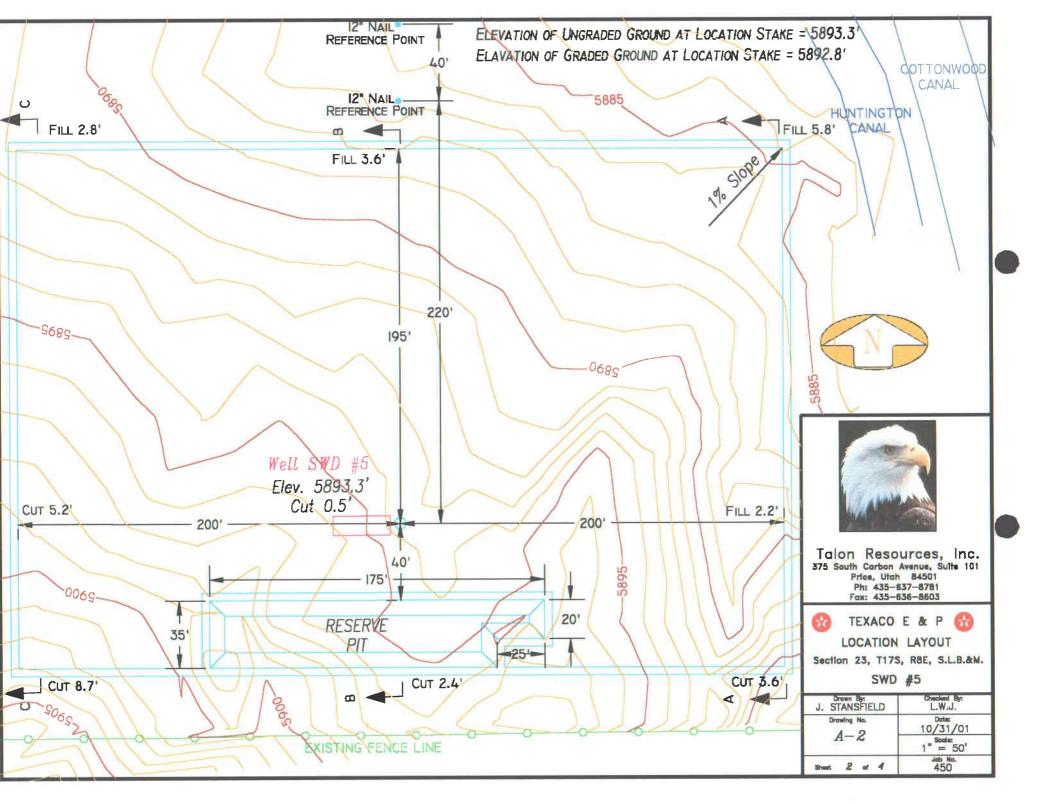
Nielson Construction 625 West 1300 North, North Loop Road Huntington, Utah 84528 (435) 687-2494

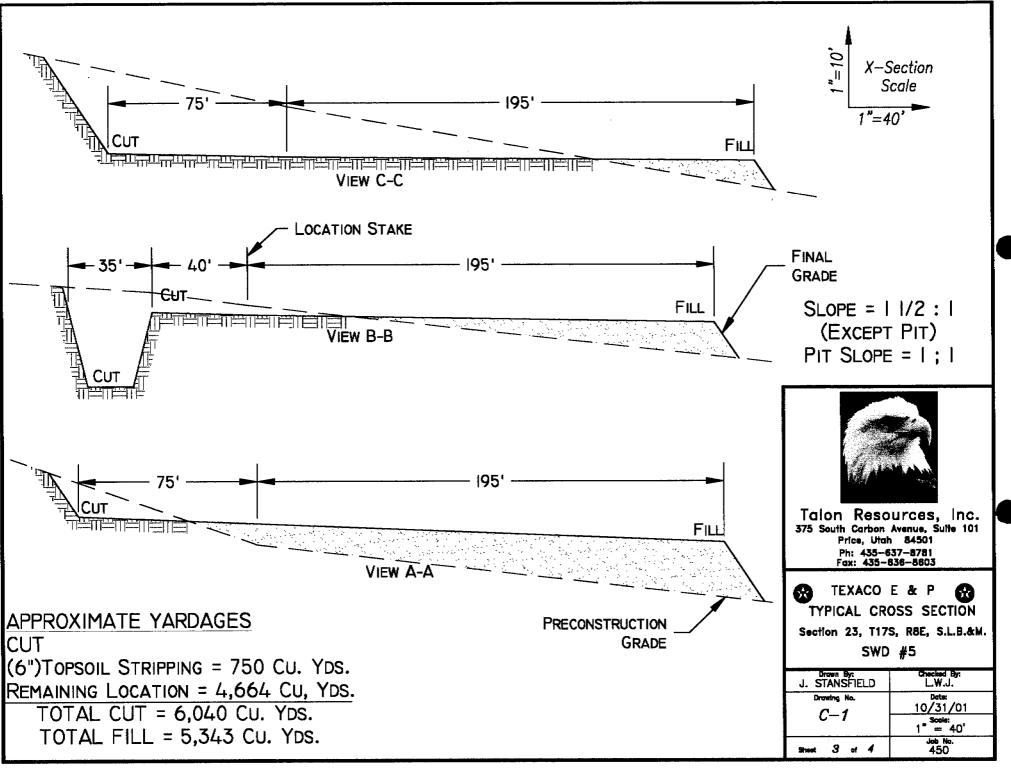
14. Certification

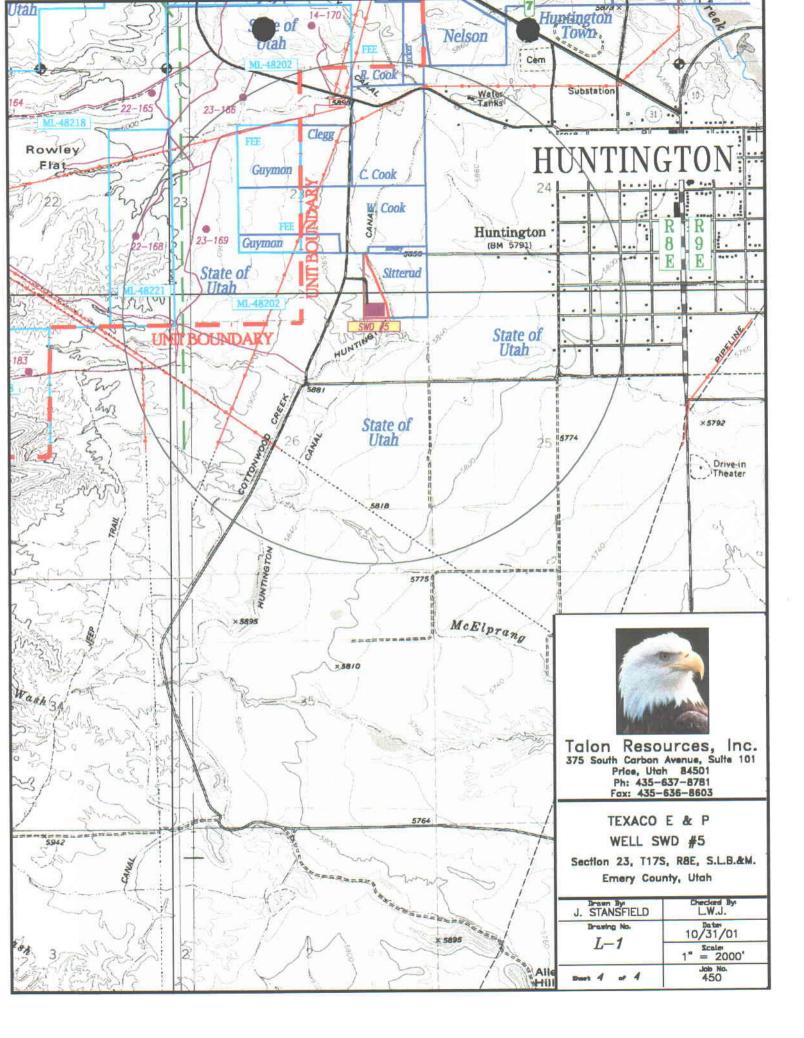
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct, and that the work associated with the operations proposed herein will be performed by Texaco Exploration and Production, Inc. and its subcontractors in conformity with this plan and the terms and conditions under which it is approved.

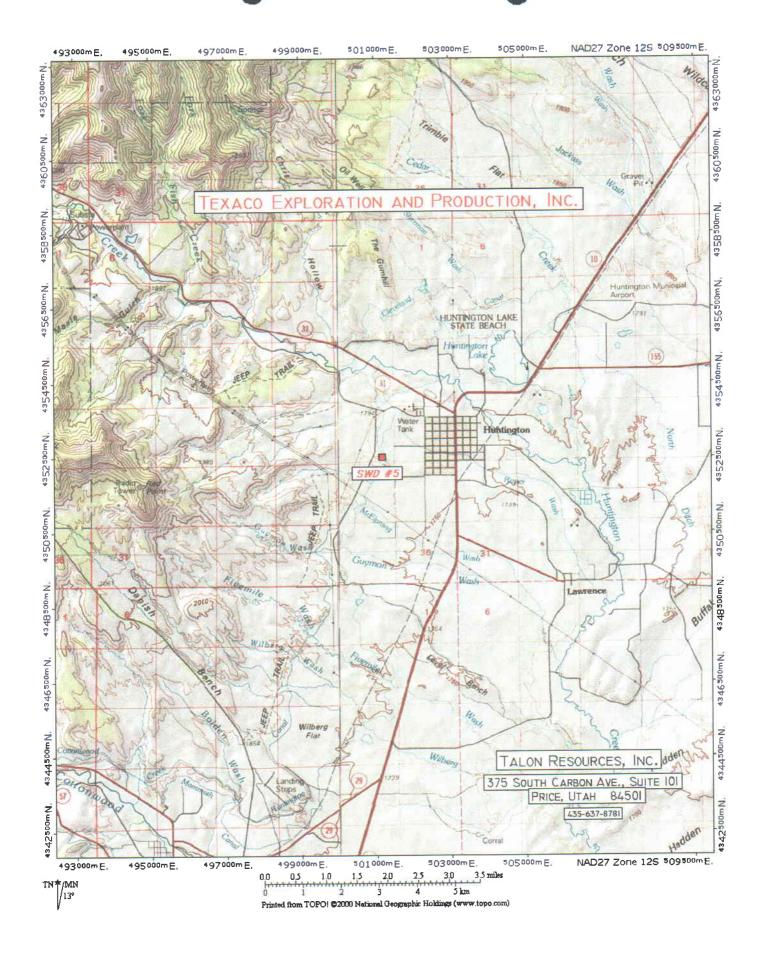
0/31/01 Data

Fexaco Exploration and Production, Inc.









A rig layout for the Patterson Rig is not available at this time and will be provided prior to the onsite being conducted.

TYPICAL ROAD CROSS-SECTION

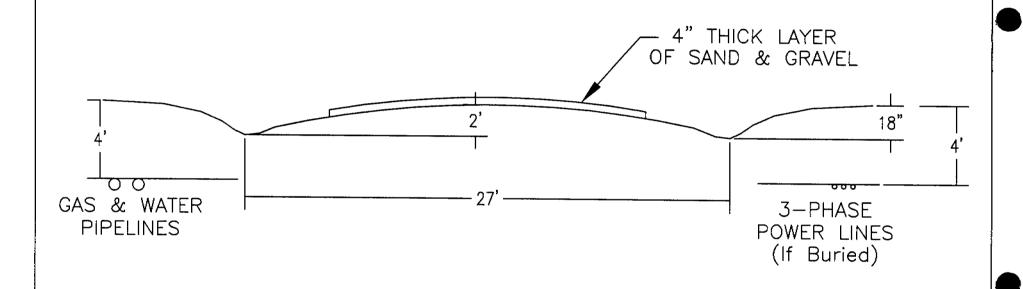
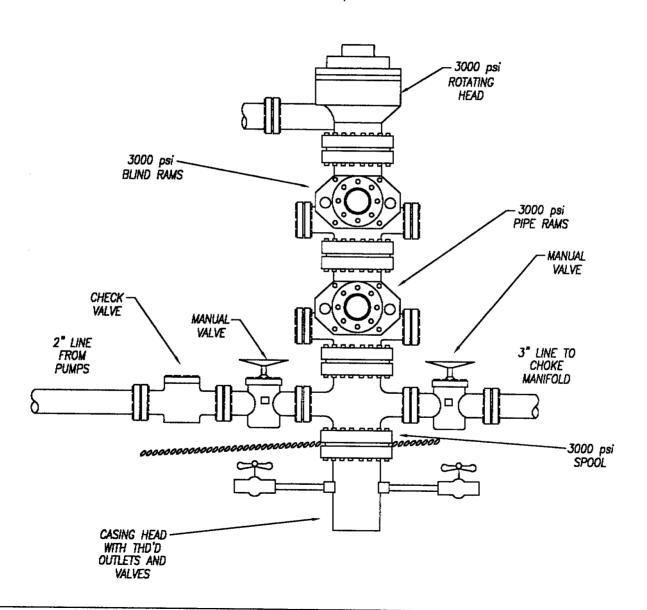
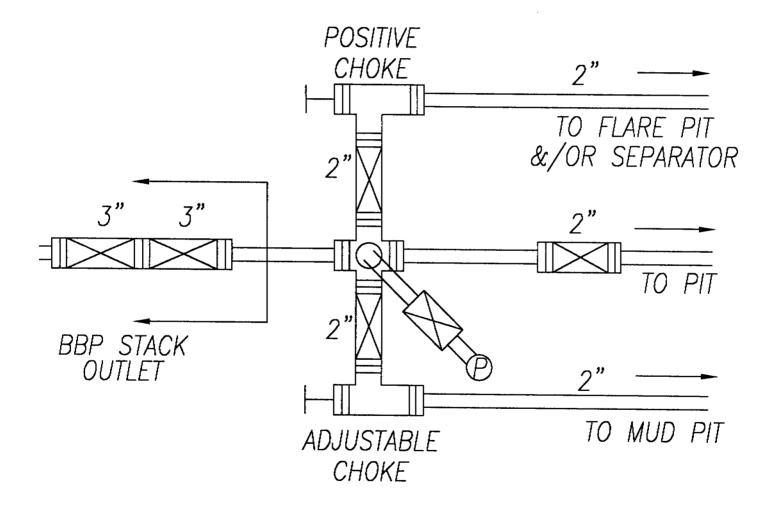


EXHIBIT "F"

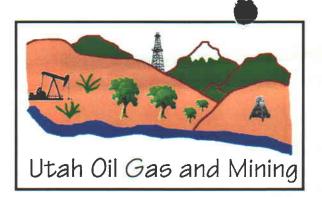
BOP Equipment 3000psi WP



CHOKE MANIFOLD



APD RECEIVED: 11/01/2001	API NO. ASSIGN	ED: 43-015-305	510
WELL NAME: SWD 5 OPERATOR: TEXACO E & P INC (N5700) CONTACT: DON HAMILTON, AGEN	PHONE NUMBER: 4	35-637-8781	
PROPOSED LOCATION:	INSPECT LOCATI	N BY: /	/
SESE 23 170S 080E SURFACE: 0101 FSL 1108 FEL	Tech Review	Initials	Date
BOTTOM: 0101 FSL 1108 FEL EMERY	Engineering	DKO	11/28/01
WILDCAT (1)	Geology		
LEASE TYPE: 4 - Fee	Surface		
PROPOSED FORMATION: NAVA RECEIVED AND/OR REVIEWED:	LOCATION AND SIT		
Bond: Fed[] Ind[] Sta[] Fee[4]	R649-2-3.	Unit	
(No. 6027949)		From Qtr/Qtr & 920	Between Wells
N Potash (Y/N) N Potash (Y/N) Oil Shale 190-5 (B) or 190-3 or 190-13	R649-3-3.	Exception	
Water Permit	Drilling Un	it	
(No. MUNICIPAL)	Board Cause Eff Date:	e No:	
RDCC Review (Y/N) (Date: Communic du 11-21-61)	Siting:		
HA Fee Surf Agreement (Y/N) + Texalo	R649-3-11.	Directional Dr	cill
COMMENTS: Need presite. (11-13-01) Need "Ex.Loc" into. (1	1-28-01)		
STIPULATIONS: 1-Coment shall be brought 100' 2-Statement of basis.	above top of Ferron	(spprix (700°) in I	ntermediate Casing St



OPERATOR: TEXACO E&P INC (N5700)

SEC. 23, T17S, R8E

FIELD: WILDCAT (001)

COUNTY: EMERY SPACING: R649-3-3/EX LOC



PREPARED BY: LCORDOVA DATE: 5-NOVEMBER-2001

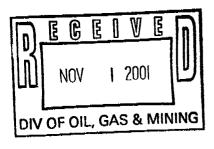
STATE ACTIONS State Clearinghouse Coordinator 116 State Capitol, SLC, UT 84114 538-1535

1. Administering State Agency Oil, Gas and Mining	2. State Application Identifier Number: (assigned by State Clearinghouse)
1594 West North Temple, Suite 1210 Salt Lake City, UT 84114-5801	
	3. Approximate date project will start: Upon Approval
4. Areawide clearinghouse(s) receiving state action: (to be sent	
Southeastern Utah Association of Governments	
5. Type of action: //Lease /X/Permit //License //La	nd Acquisition
//Land Sale //Land Exchange //Other	
6. Title of proposed action:	
Application for Permit to Drill	
7. Description:	
Texaco Exploration and Production, Inc. proposes to drill the SV Utah. This action is being presented to the RDCC for considerar Division of Oil, Gas and Mining is the primary administrative ag operations commence.	tion of resource issues affecting state interests. The
8. Land affected (site location map required) (indicate county)	
SE/4, SE/4, Section 23, Township 17 South, Range 8 East, Eme	ry County, Utah
9. Has the local government(s) been contacted? No	
10. Possible significant impacts likely to occur:	
Degree of impact is based on the discovery of oil or gas in cor	nmercial quantities.
11. Name and phone of district representative from your agency	near project site, if applicable:
12. For further information, contact:	13. Signature and title of authorized officer
Lisha Cordova Phone: (801) 538-5296	John R. Baza, Associate Director Date: November 6, 2001

STATE OF UTAH

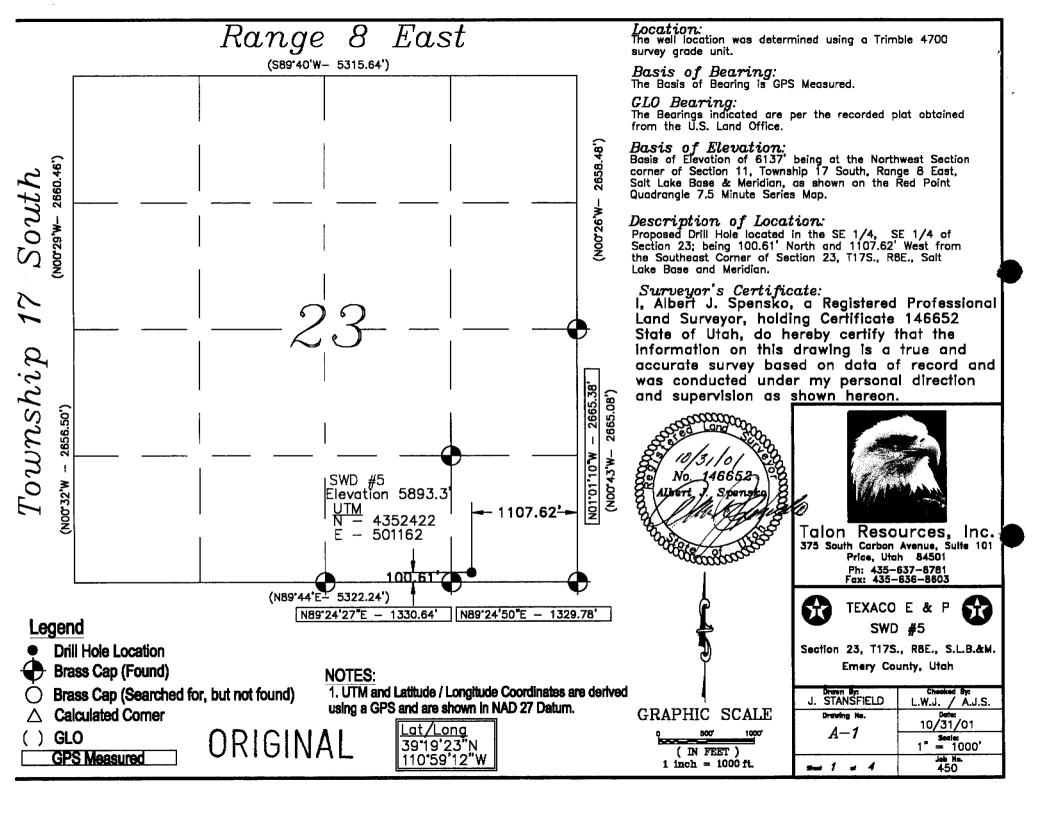
	DIVISION O	OF OIL, GAS AND MINING			5. Lease Designation and Serial Number:		
					Patented		
ADD! I	CATION FOR DEE	MIT TO DOUG (OD DEEDEN		6. If Indian, Allottee or Trib	e Name:	
	CATION FOR PER		JK DEEPEN		N/A		
1A. Type of Work: DRILL A DEEPEN					7. Unit Agreement Name:		
					N/A 8. Farm or Lease Name:		
B. Type of Well: OIL	GAS Water Dis	posał single zone	E MULTIPLE ZONE	\mathbf{X}			
2. Name of Operator.					SWD 9. Well Number:		
•	. 1	4: T			#5		
3. Address and Telephone Nu	oloration and Produc	tion, inc.			10. Field or Pool, or Wilder	at:	
·	Butler, Suite 100, F	arminaton NM &	7401 - 505-325-43	207	Wildcat		
4. Location of Well (Footages)	•	4352400 H	,,,	11. Qtr/Qtr, Section, Town	ship, Range, Meridian:	
At Surface;	101' FSL, 1108' F	EL			SELV SELV S	action 22	
At Proposed Producing	g Zone:		50/174E		SE/4 SE/4, Section 23, T17S, R8E, SLB&M		
14. Dietance in miles and dire	ction from nearest town or post office	·	COMMON TO THE PARTY OF THE PART		12, County:	13. State:	
14. Distance in filles and the	·		Itah		Emery _	Utah	
15. Distance to nearest	0.9 miles sommwe	st of Huntington, Utah 16. Number of acres in lease: 17.		17. N	. Number of acres assigned to this well:		
property or lease line (feet	^{():} 101' _	36.46		$ _{\mathbf{N}}$	N/A		
18. Distance to nearest well, o	drilling,	19. Proposed Depth:		20. R	20. Rotary or cable tools:		
completed, or applied for,	^{or} None	7895'		$\perp_{ m R}$	Rotary		
21. Elevations (show whether					22. Approximate date work	(will start:	
	_ 5893' GR				Novemb Novemb	er 2001	
23.	PROF	POSED CASING AN	D CEMENTING PRO	OGR	AM		
SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SEITING DEPTH		QUANTTI	TY OF CEMENT	
17-1/2"	13-3/8" H-40 ST&C	48	300'	3	75 sacks Class G cement + 2%	CaCl ₂ + 0.25 pps cellophane	
12-1/4"	9-5/8" K-55 LT&C	36	3000'	1	75 sacks Lead, 150 sacks Tail,	10:1 RFC	
8-3/4" 7" N-80 LT&C 23 7895'			7895'	7	75 sacks 50/50 POZ + 1 % B7	1 (fluid loss)	
				2	25 sacks Class G cement + 10	% D-44 (salt) +8 % D-20 (gel extender)	
DESCRIBE PROPOSED PRO	OGRAM: If proposal is to deepen, giv	e data on present productive zone	e and proposed new productive zo	ne. If p	proposal is to drill or deepen	directionally, give pertinent data on	

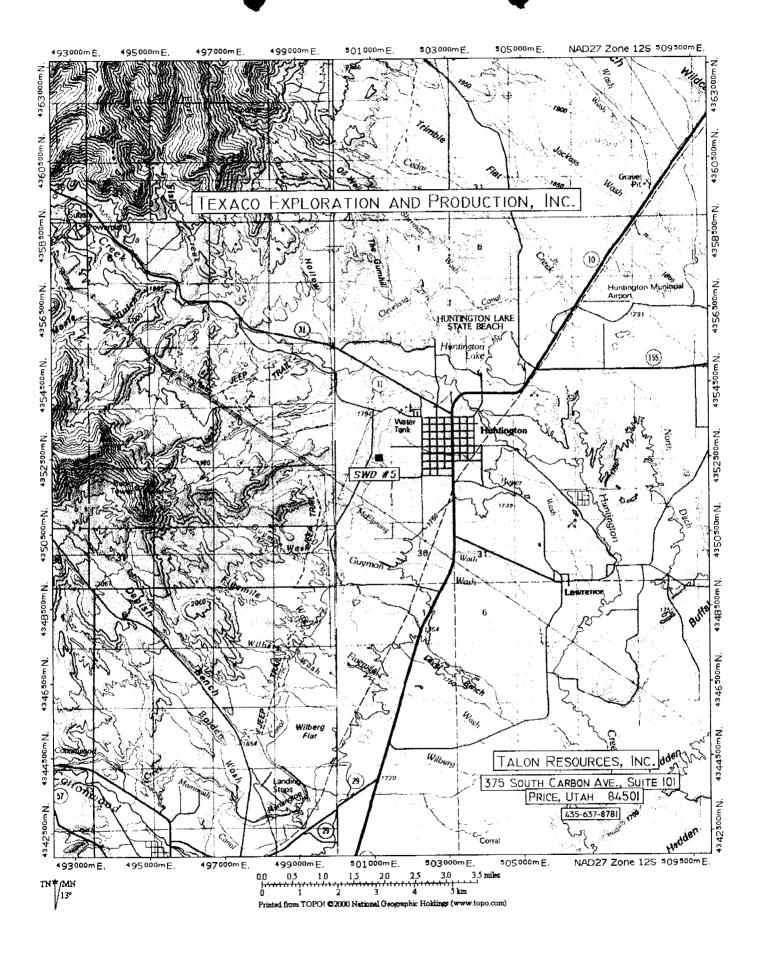
subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.



24.		,		
Name & Signature:	an Kephart Jan	Nepter	Title: Production Eng	niner Date: 10/31/01
(This space for state use only)				/
API Number Assigned:	13-015-305/0	. A	pproval:	ORIGINAL

CONFIDENTIAL





ON-SITE PREDRILL EVALUATION Division of Oil, Gas and Mining

OPERAT	TOR: Texaco
	NAME & NUMBER: SWD# 5
API NU	UMBER:
LEASE :	: <u>Fee</u> FIELD/UNIT :
	ION: 1/4,1/4 <u>SESE</u> Sec: 23 TWP: 17S RNG: 8E 101' FSL 1108' FEL
	WELL SITING:F SEC. LINE;F 1/4,1/4 LINE;F ANOTHER WELL.
GPS CC	CORD (UTM): X =501162 E; Y =4352422 N SURFACE OWNER: Lynn Sitterud.
DADET	
	<u> </u>
	County), D. Hamilton & A. Childs (Talon), L. Sitterud (Surface). SITLA
_	and DWR was invited but did not attend.
_	
REGION	NAL/LOCAL SETTING & TOPOGRAPHY
	Proposed location is ~1.25 miles SW of Huntington city center and ~1.58
	miles south of Huntington Creek, a year round live water source. The
	location also lies West of the Huntington irrigation canal ~40'. The
	surrounding lands are SITLA and private. Topographically the area is flat with some rolling hills as you proceed to the south of the
	location.
SURFAC	CE USE PLAN
C	CURRENT SURFACE USE: Grazing.
т	PROPOSED SURFACE DISTURBANCE: 270' x 400' with a pit included.
_	FROFOSED SORFACE DISTORDANCE. 270 X 400 WICH a pic included.
I	LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS: None.
I	LOCATION OF PRODUCTION FACILITIES AND PIPELINES: On location and along
<u>r</u>	roadways.
_	
7	SOURCE OF CONSTRUCTION MATERIAL: Locally and transported in.
7	ANCILLARY FACILITIES: On location if needed.
Ε.	WCIDDAKI FACIDITIES. OH IOCACION IL Needed.
WASTE	MANAGEMENT PLAN:
<u>I</u>	Portable chemical toilets which will be emptied into the municipal waste
<u>t</u>	treatment system; garbage cans on location will be emptied into

Portable chemical toilets which will be emptied into the municipal waste treatment system; garbage cans on location will be emptied into centralized dumpsters which will be emptied into an approved landfill. Crude oil production is unlikely. Drilling fluid, completion / frac fluid and cuttings will be buried in the pit after evaporation and slashing the pit liner. Produced water will be gathered to the evaporation pit and eventually injected into the Navajo Sandstone via a salt water disposal well. Used oil from drilling operations and support is hauled to a used oil recycler and reused.

ENVIRONMENTAL PARAMETERS

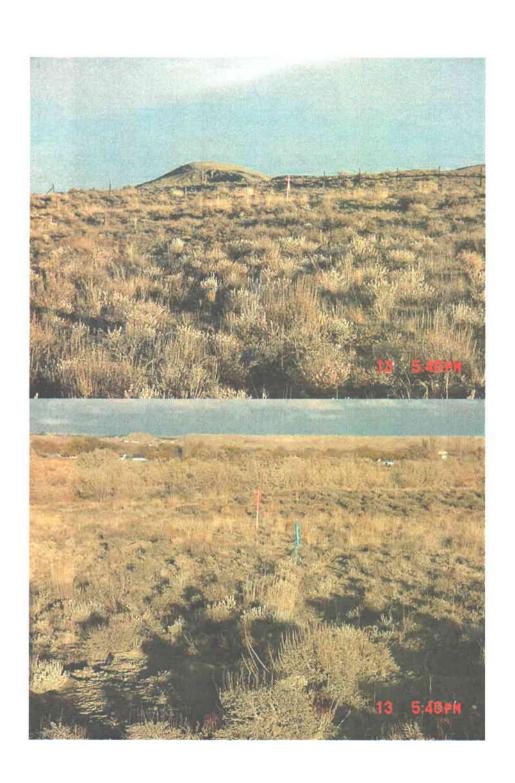
	FED FLOODPLAINS AND/OR WETL is an irrigation canal ~40		
	/FAUNA: <u>Sagebrush, native</u> ws, deer, small game, rodent		cottonwood,
SOIL 7	TYPE AND CHARACTERISTICS:	clay loam	
EROSIC	ON/SEDIMENTATION/STABILITY:_	Stable.	
PALEON	NTOLOGICAL POTENTIAL: None	Observed.	
RESERVE PIT	<u>r</u>		
CHARAC	CTERISTICS: Dugout Earthen E	Pit.	<u> </u>
LINER	REQUIREMENTS (Site Ranking	Form attached): Liner rec	guired.
SURFACE RES	STORATION/RECLAMATION PLAN		
As r	per surface use agreement.		
SURFACE AGE	REEMENT: In negotiation.		
CULTURAL RE	ESOURCES/ARCHAEOLOGY: Will	be completed and kept on t	file with the
OTHER OBSE	RVATIONS/COMMENTS		
The r Resour has. 2'-3' corner locati	rigation canal runs along the cad will be offset ~40' from rees this will be well out. I asked that the location bearm and that the slope of the to the NW corner of the passing this land from L. Sitt	om the canal bank. Accordance of any right of way the control of beaution and four the location be changed to keep water from runged canal. Texaco was in	ding to Talon canal company sides with a from the NE ming off the process of
ATTACHMENTS	<u>3</u>		
<u>Photos</u>	s of this location were take	en and placed on file.	
 I	Mark L. Jones DOGM REPRESENTATIVE	11/13/2001 / 4:00 pm DATE/TIME	1

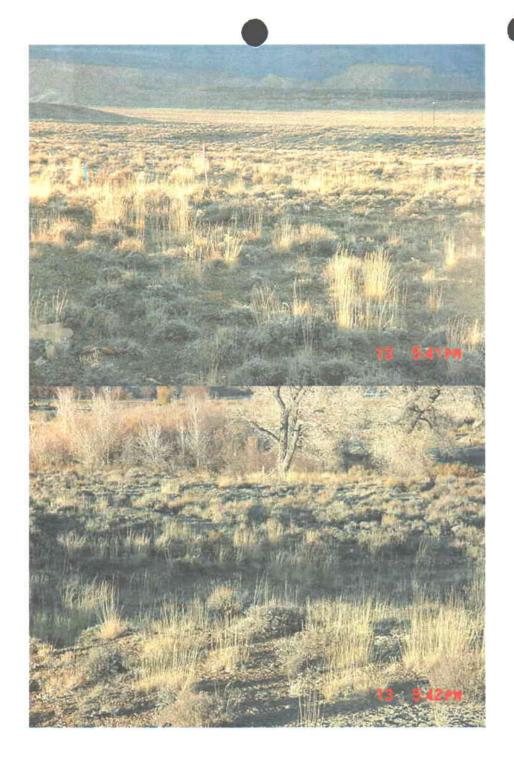
Site-Specific Factors	Ranking	Site Ranking
Distance to Groundwater (feet)		
>200	0 5	
100 to 200 75 to 100	10	
25 to 75	15	
<25 or recharge area	20	0
Distance to Surf. Water (feet)	0	
>1000 300 to 1000	0 2	
200 to 300	10	
100 to 200	15	20
< 100	20	20
Distance to Nearest Municipal Well (feet)		
>5280	0	
1320 to 5280	5	
500 to 1320 <500	10 20	0
<500	20	
Distance to Other Wells (feet)	0	
>1320 300 to 1320	0 10	
<300	20	0
Native Soil Type		
Low permeability	0	
Mod. permeability	10	
High permeability	20	10
Fluid Type		
Air/mist	0	
Fresh Water TDS >5000 and <10000	5 10	
TDS >10000 or Oil Base Mud Fluid	15	
containing significant levels of		0
hazardous constituents	20	0
Drill Cuttings		
Normal Rock Salt or detrimental	0 10	0
	10	<u>~</u>
Annual Precipitation (inches) <10	0	
10 to 20	5	
>20	10	0
Affected Populations		
<10	o o	
10 to 30 30 to 50	6 8	
>50	10	6
Dynamon of Morely Weiling		
Presence of Nearby Utility Conduits		
Not Present	0	
Unknown Present	10 15	0
FIESCHC	13	

36 (Level I Sensitivity)

Sensitivity Level I = 20 or more; total containment is required. Sensitivity Level II = 15-19; lining is discretionary. Sensitivity Level III = below 15; no specific lining is required.

Final Score





From:

Frances Bernards

To:

Cordova, Lisha

Date:

11/15/01 5:42PM

Subject:

RDCC items 1346 and 1374

The Christensen #6-6 and SWD#5 wildcat wells may require a permit, known as an Approval Order, from the Utah Division of Air Quality if any compressor stations are operating at the site. A permit application, known as a Notice of Intent (NOI) should be submitted to the Executive Secretary at the Utah Division of Air Quality at 150 N. 1950 West, SLC, UT, 84116 for review according to the Utah Air Conservation Rule R307-400, Permits, Notice of Intent and Approval Order.

DIVISION OF OIL, GAS AND MINING APPLICATION FOR PERMIT TO DRILL STATEMENT OF BASIS

OPERATOR:	Texaco
WELL NAME & NUMBER:	SWD #5
API NUMBER:	43-015-30510
	Sec: <u>23</u> TWP: <u>17S</u> RNG: <u>8E</u> <u>101'</u> F <u>S</u> L <u>1108</u> F <u>E</u> L
Geology/Ground Water:	
	n of Water Rights was made and a plot of the existing points of diversion was obtained
	version within one mile of this location. None of the active water rights are water well
and none of the water is being	g used for culinary purposes. 3 of the five points of diversion are underground drains
and two are for agricultural	use. The proximity of the Huntington Canal to the location is a concern and al
	<u> Fexaco to properly notify the Canal Company of the well being proximate to the canal</u>
	area may exist, however with 2,000 feet of surface casing to be set and cemented to
	be protected. Extra precautions will need to be taken when building the reserve pit and
a liner should be required. So	oils in the area are quaternary alluvium and will consist of sand and clay derived from
the rock layers of the Upper N	Member of Bluegate Shale and interbeded Emery Sandstone. In this area the formation
will dip gently toward the we	est where they rise to form the Wasatch Plateau, and lie in an erosional valley of the
Price River and Huntington	River Drainages, as they flow around the San Rafael Swell to the East.
Reviewer: <u>K</u>	. Michael Hebertson Date: 19-November-2001
Surface:	
The location lies West of the	Huntington irrigation canal ~40'. The location will be bermed around all four side
with a 2'-3' berm. The slope of	of the location be changed from the NE corner to the NW corner of the pad to take pa
	ay from the canal. Attention should be paid to keeping runoff away from the pad and
spills remaining on the pad du	ue to the close proximity of the canal. Permits from SITLA had not yet been obtained
	SITLA and DWR were invited to the onsite but neither attended.
Reviewer: N	Mark L. Jones Date: November 19, 2001.

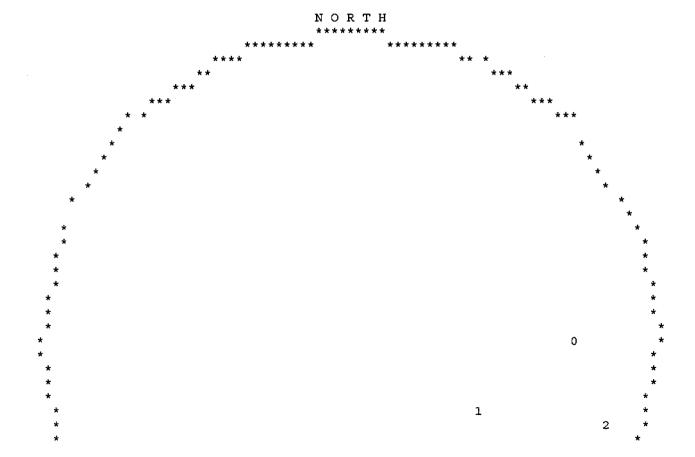
Conditions of Approval/Application for Permit to Drill:

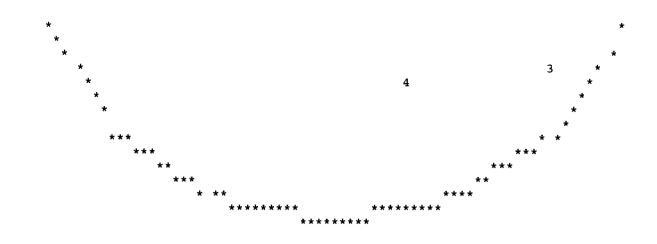
- 1. A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
- 2. Berm the location with a 2' to 3' berm.
- 3. Berm and fence the reserve pit.
- 4. Amended location plat showing changes of slope to the NW corner and the road adjusted.

UTAH DIVISION OF WATER RIGHTS WATER RIGHT POINT OF DIVERSION PLOT CREATED MON, NOV 19, 2001, 10:59 AM PLOT SHOWS LOCATION OF 5 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT N 101 FEET, W 1108 FEET OF THE SE CORNER, SECTION 23 TOWNSHIP 17S RANGE 8E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS AND/OR AC-I	SOURCE DESCRIPTION OF WELL INF T DIAMETER DEPTH YEAR LOG		NT OF DI EAST	VERSION DESCRIE CNR SEC TWN	PTION RNG B&M
0 9		2.0000 TER USE(S): IRRIGATION ymon, Estella Geary	.00 Underground Drain	N 40	₩ 20	S4 24 17S PRIORITY DATE: Huntington	8E SL 00/00/18
1 5		2.0000 TER USE(S): IRRIGATION ymon, Estella Geary	.00 Underground Drain	S 1150	E 1000	NW 25 17S PRIORITY DATE: Huntington	8E SL : 00/00/18:
2 1		1.1300 TER USE(S): IRRIGATION Elprang, Lee	.00 Rowley Hollow 160 South 400 West	S 1320	E 650	N4 25 17S PRIORITY DATE: Huntington	8E SL : 02/23/19:
3 5	93 1135 WA'	2.0000 TER USE(S): IRRIGATION	.00 Underground Drain	N 2680	W 30	S4 25 17S PRIORITY DATE:	8E SL : 00/00/18:

Guymon, Estella Geary

Huntington

93 1566 .0150 .00 6 WATER USE(S): IRRIGATION STOCKWATERING

100 - 1000

150 E

150 W4 25 17S 8E SL PRIORITY DATE: 04/04/19:

American Fork

Bishop, Peggy 270 East State Road

STATE OF UTAH

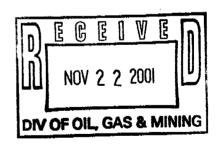
n	IVISION OF	OIL, GAS AND MIN	ING	,			
_		0.0, 0			5. Lease Designation a	nd Serial Number:	
					Patented		
SUNDRY NO	TICES AN	D REPORTS ON	I WEI	LLS	6. If Indian, Allottee or	Tribe Name:	
CONDICT NO		.5 5 5			N/A		
Do not use this form for proposals to	drill new wells, deed	en existing wells, or to reenter plu	gged and a	abandoned wells.	7. Unit Agreement Nan	ne:	
		RILL OR DEEPEN form for such			N/A		
1. Type of Well: OIL ☐ GAS 🖾	OTHER:				8. Well Name and Nur	nber:	
1. Type of West.		***************************************			SWD #5		
2. Name of Operator:					9. API Weil Number:	1	
Texac	o Exploration	and Production, Inc.			43-0	15-30510	
Address and Telephone Number.		,			10. Field or Pool, or W	ildcat:	
3300 N	North Butler. 1	Farmington, NM 87401	: 5	05-325-4397	Wildcat		
4. Location of Well	02 PEI	<u>-</u>			Country		
Footages: 101' FSL, 110 QQ, Sec., T., R., M.:	8 FEL				County: Emery State:		
SE/4 SE/4, Se	ction 23, T17	S, R8E, SLB&M			Utah		
11. CHECK APPROPI	RIATE BOX	ES TO INDICATE NA	ATUR	E OF NOTICE, RE	EPORT, OR O	THER DATA	
NOTIC	E OF INTENT				UBSEQUENT RE		
(Subm	it in Duplicate)		1		(Submit Original Form	**	
☐ Abandon	☐ New	Construction		Abandon *		New Construction	
□ Repair Casing	☐ Pull	or Alter Casing		Repair Casing		Pull or Alter Casing	
☐ Change of Plans	☐ Rec	omplete		Change of Plans		Reperforate	
□ Convert to Injection	☐ Rep	erforate		Convert to Injection		Vent or Flare	
☐ Fracture Treat or Acidize	□ Vent	or Flare	. –	Fracture Treat or Acid		Water Shut-Off	
☐ Multiple Completion	□ Wate	er Shut-Off		Other <u>Location</u>			
☐ Other			Date	e of work completion _			_
Approximate date work will start			1				
			СОМ	Report results of Multiple C PLETION OR RECOMPLETI		eletions to different reservoirs on WEL form.	L

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

* Must be accompanied by a cement verification report.

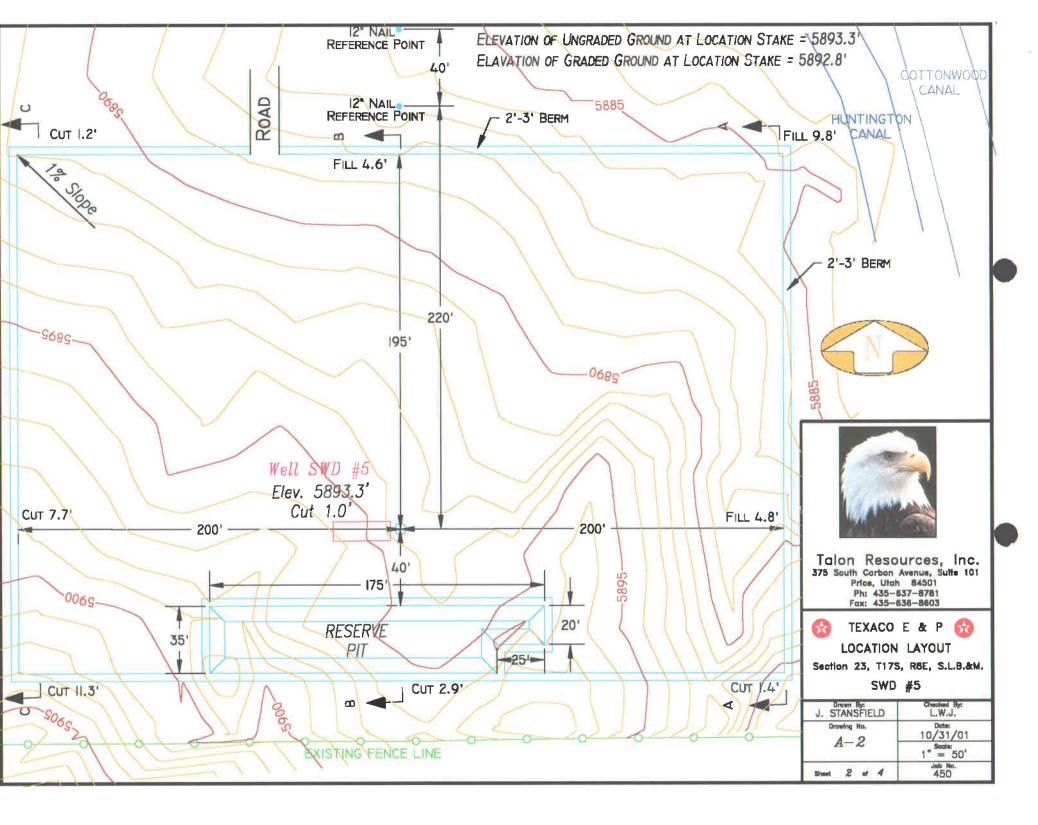
Minor changes were made to the submitted location layout and cut and fill sheets following the state presite inspection on November 13, 2001.

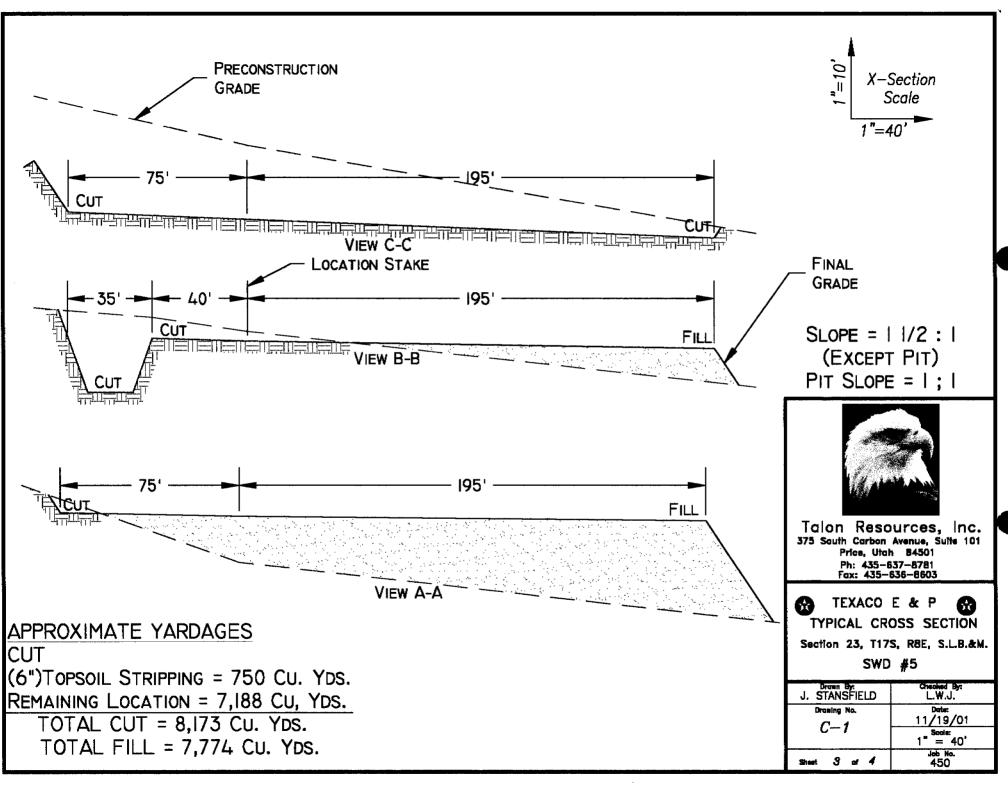
Attached please find and updated location layout and cut and fill sheets.



13.								
Name & Signature: _	Dan	Hamilton	Don	Hamilton	Title:	Agent for	Техасо	Date: 11-20-01

(This space for state use only)





Well name:

11-01 Texaco SWD #5

Operator:

Texaco E&P

String type:

Production

Design is based on evacuated pipe.

Location:

Collapse

Design parameters:

Mud weight:

Emery County, Utah

Project ID:

43-015-30510

Minimum design factors:

Collapse: 9.300 ppg

Design factor 1.125 **Environment:**

H2S considered? Surface temperature:

No 65 °F 176 °F

Bottom hole temperature: Temperature gradient:

1.40 °F/100ft

Minimum section length: 1,500 ft

Burst:

Design factor

1.00 Cement top: 1,793 ft

Burst

Max anticipated surface pressure:

Internal gradient:

0 psi 0.483 psi/ft

Calculated BHP

3.814 psi

No backup mud specified.

Premium: Body yield:

8 Round LTC:

Tension: 8 Round STC:

Buttress:

1.50 (B)

1.80 (J)

1.80 (J)

1.60 (J)

1.50 (J)

Non-directional string.

Tension is based on air weight. 6.791 ft Neutral point:

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	7895	7	23.00	N-80	LT&C	7895	7895	6.25	364.9
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	3814	3830	1.00	3814	6340	1.66	182	442	2.43 J

7, 23# Casingrun in Last Swowells

Texaco using allapse of 100 Dreo 1/27/01

Antorophed BHP= (0.052X8,13)(4855=3420 PS; Collapse @ 3420psi > 1.121

Prepared

Dustin K. Doucet

Utah Dept. of Natural Resources

Phone: (801) 538-5281

FAX: (801)359-3940

Date: November 27,2001 Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name: Operator:

String type:

Texaco E&P

Intermediate

Location:

Emery County, Utah

11-01 Texaco SWD #5

Project ID:

43-015-30510

Design parameters:

Collapse

Mud weight:

8.800 ppg

- Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

H2S considered? Surface temperature: No 65 °F

Bottom hole temperature: Temperature gradient:

107 °F

1.40 °F/100ft

Minimum section length: 1,500 ft

Burst:

Design factor

1.00

Cement top:

2,093 ft

Burst

Max anticipated surface

pressure:

0 psi 0.483 psi/ft

Internal gradient: Calculated BHP 1,449 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress:

Premium:

Body yield:

1.50 (J) 1.50 (B)

1.80 (J)

1.80 (J)

1.60 (J)

Tension is based on air weight. Neutral point: 2,609 ft

Non-directional string.

Re subsequent strings: Next setting depth: 7,895 ft

Next mud weight: 9.300 ppg Next setting BHP: 3,814 psi 19.250 ppg

Fracture mud wt: Fracture depth: Injection pressure

3,000 ft 3,000 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (lbs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	3000	9.625	36.00	K-55	LT&C	3000	3000	8.765	213.6
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor
1	1371	2020	1.47	1449	3520	2.43	108	489	4.53 J

Prepared

Dustin K. Doucet

Utah Dept. of Natural Resources

Phone: (801) 538-5281 FAX: (801)359-3940

Date: November 27,2001 Salt Lake City, Utah

N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of blaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:

11-01 Texaco SWD #5

Operator:

Texaco E&P

String type:

Location:

Surface

Emery County, Utah

Project ID:

43-015-30510

Design parameters:

<u>Collapse</u>

Mud weight:

8.700 ppg

Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125 **Environment:**

H2S considered? Surface temperature: No 65 °F 69 °F

Bottom hole temperature: Temperature gradient:

1.40 °F/100ft

Minimum section length: 300 ft

<u>Burst:</u>

Design factor

1.00

Cement top:

Surface

Burst

Max anticipated surface

pressure: Internal gradient:

0 psi 0.457 psi/ft

Calculated BHP

137 psi

No backup mud specified.

Tension:

8 Round STC: 8 Round LTC:

Buttress: Premium:

1.50 (J) Body yield: 1.50 (B)

Tension is based on air weight. Neutral point: 262 ft

Non-directional string.

1.80 (J) 1.80 (J) 1.60 (J)

Re subsequent strings:

Next setting depth: Next mud weight: Next setting BHP:

3,000 ft 8.800 ppg 1,371 psi

Fracture mud wt: Fracture depth: Injection pressure

19.250 ppg 300 ft 300 psi

Run	Segment		Nominal		End	True Vert	Measured	Drift	Internal
Seq	Length (ft)	Size (in)	Weight (ibs/ft)	Grade	Finish	Depth (ft)	Depth (ft)	Diameter (in)	Capacity (ft³)
1	300	13.375	48.00	H-40	ST&C	300	300	12.59	28.2
Run	Collapse	Collapse	Collapse	Burst	Burst	Burst	Tension	Tension	Tension
Seq	Load	Strength	Design	Load	Strength	Design	Load	Strength	Design
	(psi)	(psi)	Factor	(psi)	(psi)	Factor	(Kips)	(Kips)	Factor
1	136	740	5.46	137	1730	12.62	14	322	22.37 J

Prepared

Dustin K. Doucet

Utah Dept. of Natural Resources

Phone: (801) 538-5281 FAX: (801)359-3940

Date: November 27,2001 Salt Lake City, Utah

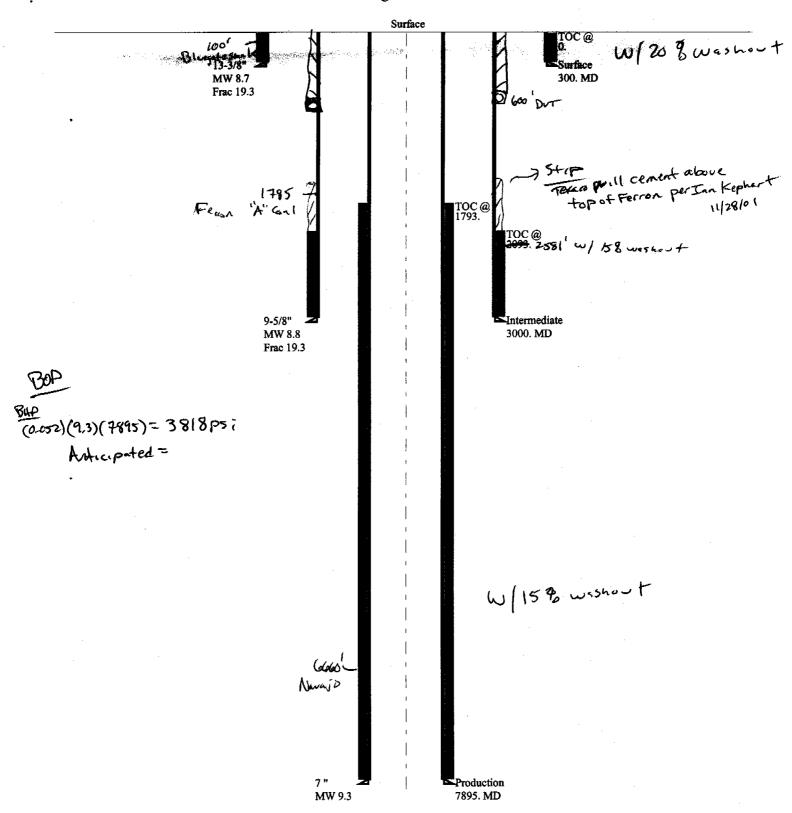
N/A.

Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

11-01 Texaco SWD #5

Casing Schematic





FAX TRANSMITTAL COVER SHEET

NOTE: DO NOT USE BLUE OR RED INK OR PENCIL ON THIS FORM. THEY WILL NOT REPRODUCE

DATE: 11-27-01 SURGENT	ROUTINE NO. OF PAGES 2+C
MESSAGE TO: LIGHA CORDOVA	
TELEPHONE NO.	FAX MACHINE NO. 801-359-3940
DEPT./DIV./SUBS.	
LOCATION SUC, UT	ROOM NO
MESSAGE FROM:	1PE
TELEPHONE NO	FAX MACHINE NO. 303-793-4642
DEPT./DIV./SUBS.	
LOCATION DENVER, GO.	ROOM NO
SENDING DEPT. APPROVAL	TIME TRANSMITTED
☐ RETURN ORIGINAL VIA INTER-OFFICE MAIL	RETURN ORIGINAL CALL SENDER TO PICK UP
ADDITIONAL COMMENTS:	
<u> </u>	
	RECEIVED
	1'0V 2 7 2001
,	DIVISION OF OIL, GAS AND MINING
	VIO MINING



Texaco Exploration and Production Inc Donver Oxyssion

P O Box 2100 Denver CO 80201 4601 DTC Boulevard Denver CO 80237

VIA FAX

November 27, 2001

State of Utah Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114-5801

Attn:

Lisha Cordova

RE:

Application for Permit to Drill

SWD #5

Dear Lisha,

This letter is to advise you that Texaco has purchased approximately 9.864 acres of surface from Sittered Family Investments, LLC, P.O. Box 480, Huntington, Utah 84528 for the drilling of our SWD #5 well. The location of this well is being permitted in the SE/4 of Section 23, T178, R8E, Emery County, Utah. A copy of the Warranty Deed is attached for your convenience.

Thank you in advance for your assistance in approving the APD for this well. Should you need anything further at this time, please let me know.

Yours very truly,

Chuck Snure

CAS:bw Attach.

RECEIVED

NOV 27 2001

DIVISION OF OIL, GAS AND MINING

WARRANTY DEED

SITTERUD FAMILY INVESTMENTS, LLC., P.O. Box 480, Huntington, Utah 84528 (GRANTOR), for the sum of Ten dollars (\$10.00) and other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, hereby grants, conveys and warrants to TEXACO EXPLORATION AND PRODUCTION INC., P.O. Box 2100, Denver, Colorado 80201 (GRANTEE), the surface only of the following tract of land in Emery County, Utah:

Township 17 South, Range 8 East, SLB&M

Beginning at a point at the 1/16th CORNER LOCATED AT THE SOUTHWEST CORNER OF THE SOUTHEAST QUARTER, OF THE SOUTHEAST QUARTER OF SECTION 23, 175, R8E, S.L.B.&M. THENCE RUNNING N00°57′37″W, 1333.36′; THENCE EAST, 12.21′; THENCE S09°30′16″E, 15.15′; THENCE S32°49′49″E, 304.64′; THENCE S30°03′49″E, 240.75′; THENCE S19°13′05″E, 282.95′; THENCE S12°16′24″E, 102.58′; THENCE S19°49′47″E, 122.10′; THENCE S28°31′08″E, 38.13′; THENCE S12°42′45″E, 178.72′; THENCE S00°16′36″E, 30.43′; THENCE S29°22′02″E, 30.58′; THENCE S06°30′14″W, 73.23′; THENCE S09°30′18″E, 29.17′; THENCE S89°24′50″W, 503.73′ MORE OR LESS TO THE POINT OF BEGINNING, APPROX. 9.864 ACRES

As additional consideration herein, it is understood and agreed that at Grantee's sole discretion and upon the cessation of operations by Grantee on the lands conveyed by Grantor hereunder, Grantee shall reconvey said lands to Grantor. Upon such re-conveyance, Grantor hereunder shall indemnify, release and forever discharge Grantee hereunder, its successors and assigns, from all claims, demands, actions or causes of actions resulting or that may result from Grantor's ownership of and operations on said lands on or after the effective date of said re-conveyance.

TALON RESOURCES, INC.

375 S. Carbon Ave. (A-10), Suite 101, Price, Utah 84501 Phone: (435) 637-8781 (435) 650-1403 Fax: (435) 636-8603

Fax Transmittal Cover Sheet

Date: 11-2801

Number of pages: 2

Message To: Lisha Cordova - DOGM

Telephone Number: 1-801-538-5277

Fax Number: 1-801-359-3940

Lisha

Attached is a copy of the Texaco SWD-5 exception letter that we spoke of earlier today

Please feel free to contact me if you have any changes that need to be made or if you have any questions or need additional information.

D. Hamilton

RECEIVED

NOV 28 2001

DIVISION OF OIL, GAS AND MINING





Service, Quality and Accuracy

375 South Carbon Avenue A-10 Suite 101 Price, Utah 84501

Phone: 435-637-8781

435-537-5032 Ext 710/711

Ceft: 801-650-1401 801-650-1403 Fez: 435-636-8608 Email: talon.5@straband.com

November 28, 2001

Ms. Lisha Cordova State of Utah Division of Oil Ges and Mining P.O. Box 145801 Salt Lake City, Utah 84114-5801

RE: Request for Exception to State Specing Rule—Texaco—SWD #5, Emery County, Utah: 101' FSL, 1108' FEL, Section 23, T17S, R&E, SLB&M.

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco) Talon Resources, Inc. respectfully submits this request for exception to spacing and information to supplement the request and the previously submitted APD for the above referenced well.

A request for exception to spacing (state sighting rules) is hereby requested based on geology because the well is located within 460° of the drilling unit boundary and outside of the Huntington (Shellow) CBM-

Texace will case through and not perforate any potential production intervals.

Texaco will drill and complete this well as a sait water disposal well.

Should Texaco ever desire to plug back and produce from this well the exception to spacing procedure will be followed and completed prior to any production.

Thank you for your timely consideration our previous application. Please feel free to contact me or Mr. Isn Kepert with Texaco at 505-325-4397 if you have any questions or need additional information.

Sincerely.

Don Hamilton

Don Hamilton

Environmental Manager / Project Coordinator

cc; Mr. Allen Davis, Texaco Mr. Chuck Snure, Texaco Mr. Ian Kephart, Texaco Mr. Roger Johnson, Texaco Mr. Ron With, Texaco Texaco Well File

RECEIVED

NOV 2 8 2001

DIVISION OF OIL, GAS AND MINING



Lowell P. Braxton

DIVISION OF OIL, GAS AND MINING

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) Division Director 801-538-7223 (TDD)

November 28, 2001

Texaco Exploration and Production, Inc. 3300 North Butler, Suite 100 Farmington, NM 87401

Re:

SWD 5 Well, 101' FSL, 1108' FEL, SE SE, Sec. 23, T. 17 South,

R. 8 East, Emery County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 et seq., Utah Administrative Code R649-3-1 et seq., and the attached Conditions of Approval, approval to drill the referenced well is granted.

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-015-30510.

Sincerely,

Associate Director

dm

Enclosures

cc:

Emery County Assessor

Well Name & Number API Number: Lease:	Texaco Exploration and Production, Inc.								
Well Name & Number_		SWD 5							
API Number:		43-015-30510							
Lease:		FEE							
Location: <u>SE SE</u>	Sec. 23	T. <u>17 South</u>	R. 8 East_						

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- 24 hours prior to cementing or testing casing
- 24 hours prior to testing blowout prevention equipment
- 24 hours prior to spudding the well
- within 24 hours of any emergency changes made to the approved drilling program
- prior to commencing operations to plug and abandon the well

The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at (801) 538-5338
- Carol Daniels at (801) 538-5284 (spud)

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

- 4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
- 5. Operator shall comply with applicable recommendations resulting from Resource Development Coordinating Committee review. Statements attached.
- 6. Cement shall be brought 100' above top of Ferron (approx. 1700') in the intermediate casing string.





Service, Quality and Accuracy

375 South Carbon Avenue A-10 Suite 101

Price, Utah 84501 Phone: 435-637-8781

435-637-5032 Ext 710/711

Cell: 801-650-1401

801-650-1402

Fax: 435-636-8603 Emeil: talon.5@straband.com

November 28, 2001

Ms. Lisha Cordova State of Utah Division of Oil Gas and Mining P.O. Box 145801 Salt Lake City, Utah 84114-5801 CONFIDENTIAL

RE: Request for Exception to State Spacing Rule—Texaco—SWD #5,

Emery County, Utah: 101' FSL, 1108' FEL, Section 23, T17S, R8E, SLB&M.

43-015-30510

Dear Ms. Cordova:

On behalf of Texaco Exploration and Production, Inc. (Texaco) Talon Resources, Inc. respectfully submits this request for exception to spacing and information to supplement the request and the previously submitted *APD* for the above referenced well.

A request for exception to spacing (state sighting rules) is hereby requested based on geology because the well is located within 460' of the drilling unit boundary and outside of the Huntington (Shallow) CBM.

Texaco will case through and not perforate any potential production intervals.

Texaco will drill and complete this well as a salt water disposal well.

Should Texaco ever desire to plug back and produce from this well the exception to spacing procedure will be followed and completed prior to any production.

Thank you for your timely consideration our previous application. Please feel free to contact me or Mr. Ian Kepart with Texaco at 505-325-4397 if you have any questions or need additional information.

Sincerely,

Don Hamilton

Don Hamilton

Environmental Manager / Project Coordinator

cc: Mr. Allen Davis, Texaco

Mr. Chuck Snure, Texaco

Mr. Ian Kephart, Texaco

Mr. Roger Johnson, Texaco

Mr. Ron Wirth, Texaco

Texaco Well File

RECEIVED

DEC 0 3 2001

DIVISION OF OIL, GAS AND MINING

SOUTHEASTERN UTAH ASSOCIATION OF LOCAL GOVERNMENTS

Bill Redd CHAIRMAN

William D. Howell Executive Director



775 SOUTH CARBON AVE. P.O. DRAWER 1106 PRICE, UTAH 84501 (475) 637-5444 FAX (435) 637-5448

AREA WIDE CLEARINGHOUSE REVIEW

Federal Action	State Action	Approved	() Yes () No
Other (indicate)			
Applicant Address:		ONFIDENTIAL	
Oil, Gas & Mining	·		
1594 West North Temple #	1210		
SLC UT 84114-5801		Phone Number:	801-538-5296
Title/Project Description	Application for	Permit to Drill - Texac	o Exploration and
Production, Inc. proposes to County,			
Utah. 43-615-	-3051h Sec	. 23, 175, 8E	
] No Comment x] See comment below			
Comments: Approved on	November 27, 2	001, SEUAOG Executiv	e Board Meeting.
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AREA AGENCY ON AGING . SMALL BUSINESS DEVELOPMENT CENTER . BUSINESS INCUDATION . COMMUNITY DEVELOPMENT/PLANNING . COMMUNITY SERVICES . ECONOMIC DEVELOPMENT

OIL, GAS AND MINING



Texaco Exploration and Production Inc. Denver Region 3300 North Butler Farmington, NM 87401 505 325-4397

December 21, 2001

CONFIDENTIAL

Lisha Cordova
State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re:

Drilling Reports

SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT 43-015-305/0

Dear Lisha:

Attached are the current daily drilling reports so far for the subject well. The well was spudded on 12/6/01 and is currently at a depth of 4251'. Target depth is 8005'.

Thank you very much for your time. Please feel free to contact me at (505) 325-4397, ext-105 if you have any questions.

Sincerely,

cc:

Ian M. Kephart

Ferron Production Engineer

Farmington well file





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MANHRS NCIDEN NCIDEN FROM 06:00	TO 00:00	D: 244.00 INC IPTION: HRS. 18.00	SAFETY IDENT TYPE P/NPT PT PT	MTGS AT	SAFETY ME GETTING T	PERATION OF THE BOILS BOPS	AST LTA RIC S: ON SUMI CONTINUE ER IN OPER THE AI	MARY DE RIGGING L RATING CO R PKG ARI	REC: N SCRIPTION P.HAD PROBLI NDITION	M F/A: N	FROZEN	Sec.	S & POB: 20
MANHRS NCIDEN NCIDEN NCIDEN FROM 06:00	TO 00:00	D: 244.00 INC IPTION: HRS. 18.00 6.00	SAFETY IDENT TYPE P/NPT PT PT	MTGS AT	SAFETY ME GETTING T	PERATION OF THE BOILS BOPS	ON SUM CONTINUE ER IN OPER THE AI NNEL DA	MARY DE RIGGING L RATING CO R PKG ARI	SCRIPTION SCRIPTION SP.HAD PROBLINDITION RIVED ON LOCA	M F/A: N	FROZEN	I LINE	S & POB: 20
MANHRS NCIDEN NCIDEN FROM 06:00 00:00	WORKE 17 NO 1 DESCR TO 00:00	D: 244.00 INC IPTION: HRS. 18.00 6.00	SAFETY IDENT TYPE P/NPT PT PT	MTGS AT	SAFETY ME GETTING T	PERATI ETING. C HE BOILE BOPS PERSO MAN HE	ON SUMI CONTINUE ER IN OPER THE AI NNEL DA	MARY DE RIGGING L RATING CO R PKG ARI	SCRIPTION SCRIPTION SP.HAD PROBLINDITION RIVED ON LOCA	M F/A: N	FROZEN	i LINE	S & POB: 20 MAN HRS
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AANHRS NCIDEN NCIDEN FROM 06:00 00:00 CHEVRO CALLAW	WORKE T? NO T DESCR TO 00:00 06:00 N TEXAC AY SAFE	D: 244,00 INC IPTION: HRS 18,00 6,00 COMP	SAFETY IDENT TYPE P/NPT PT PT	MTGS AT	SAFETY ME GETTING T NIPPLE UP	PERATI EETING. (THE BOILE BOPS PERSO MAN HE 24.00 24.00 144.00	ON SUM CONTINUE ER IN OPEF THE AI NNEL DA RS PASON WEATHE	MARY MARY DE RIGGING L RATING CO R PKG ARI	SCRIPTION IP.HAD PROBLI NDITION RIVED ON LOCA	EMS WITH	FROZEN	I LINE	S & POB: 20 MAN HR: 4.00
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CHEVRON TEXACO Page 1 of 1 MORNING REPORT

Well Name: SWD #	‡ 5				WBS	E:			PI: 43-015-30510)Rpt#	:_ 6 Da	te: 12	<u>/1</u> 1/2001
WELL INFO		S. Microsoft	ELE	VAT	IONS		1 (12) (18,88) (1.1		main a amount live to the contract microfield	I/DAYS			
FIELD: HUNNINGTO		RKB.		0.00 (ft						DOL/DFS:	70.04 10000000 TOTALO	an Laurent Chron	6.00 / 6.0
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RIG: PATTERSON #	5 5						FOOTAGE		(ft)	PROPOSE			8,000 (f
ORLG SUPRS:		NEXT	CSG: 9.62	25 (in) (⊋ 3,000 (f()		DRILL HR	S:		AFE Days +	/- Goal:	W111000000000	or a second
LEE VAUGHAN 435 RIG PHONE:	687 2197		<u>,</u>	CAS	NG				COSTS DR				33
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							Cum	28,792	0	0	0 2.0	079	30,8
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21:00 02:00	5.00	PT	015	- 1	ST BOP R 500 HIGH		VES & MAI	NIFOLD 2	50 PSI LOW & 30	000 HIGH. T	'EST HYD	RIL 2	50 LOW
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ATTERSON DRLG					11	144.00							
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EE VAUGHAN CELI	# 915 642	0464											



WELL INFO	v. 1000000000000000000000000000000000000			WB:		SESS	Α Α	PI: 43-015-3051	0 Rpt #	t: 7	Date: 12	2/12/200
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TELD: HUNNINGTON	RKB:		0.00 (ft)	1					DOL/DFS:			7.00 / 7.
PUD DATE: 12/5/2000						MD/TVD:		737 (ft) / 737 (ft)	24 HR ROP) :		61.
RIG: PATTERSON #55						FOOTAG		, ,	PROPOSE			8,000
RLG SUPRS:	NEXT	CSG: 9.0	625 (in) @	3,000 (ft)	DRILL HE	RS:	7.00	AFE Days +	/- Goal:		
EE VAUGHAN 435 687 2197		.,	CASI	NG				COSTS DR	LG & CC	MP		
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CURRENT OP AT REP TIME:	DRILLIN	1G										
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14:30 16:00 1.50	PT	003	DRI	LL CMT,	SHOE & 6'	ORMATI	ON TO 310	<u>)'</u>				
16:00 19:00 3.00	PT	005	CIR	C.HOLE	CLEAN & V	/LS (3/4 I	DEG) BLO	W HOLE DRY V	VITH AIR P	KG & F	ΦН	
19:00 22:00 3.00	PT	006	PIC	K UP 10	3/4" HAMM	ER & 12 3	/4 BiT & RI	H TO 310'				
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RUN BIT# WOB	RPM	1	GPM	**************************************	RE PBIT	Market Salver S. 1865.	Carrier Colors		CUM HRS	تتنسبك	ايننب	CUM RC
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BHA WT BELOW JARS		P/l	JWT		S/O WT	RTI	WT	TORQUE	ON/OFF		HRS C	N JARS
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HA LENGTH: 339.31		MIN ID:		2.812			В	HA HRS SINCE LA	AST INSPEC	TION:		
HA DESCRIPTION:1-Polycrystall	line Dian	nond Bit,	1-HAMMI	ER, 3-Drill	Collar, 1-Cro	s Over, 8-D	Orill Collar					
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COMPANY CHEVRON TEXACO CALLAWAY SAFETY EE VAUGHAN CELL# 915 642 0					Com	nents				47.57		



CSG 13.375 ME: LEVELII LEVEL I	CSG: 9,628 MD 304 NG DERRIC RIG & CON	TENDED: 1- SAFE DRILL F CONTIN	OD (fi) LLING SAF DAYS SIN TY COMM OPERA OPERA OUT OF THE DRILL	ETY S CE LAS ENTS: ATION 795' B LING.	Est. Est+OE Cum Daily SUMMA T LTA RIG/	E: S: DH Cash	795 (ft) / 795 (58 58 1. COSTS D DH MOH Com 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	TH/DAYS DOL/DFS: 24 HR RO PROPOSE 50 AFE Days RLG & Comple 0 0 0 0 0 0 N F/A: N	P: ED TD: +/- Goal:	8.00 / 8. 8.00 / 8. 8,000 (
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NEXT 2197 CSG 13.375 ME: LEVELII LEVELI LEVELI OO SAFETY NCIDENT TYPI I: PT N1	CSG: 9.628 MO NG DERRIC RIG & CON MTGS ATT E: CODE 003 007	5 (in) @ 3,0 CASING TVD To 304 CK ITINUE DRI SAFE DRILL F CONTIN POH LA HRS	LLING SAFI DAYS SIN TY COMMI	ETY S ICE LAS ENTS: ATION 795' B LING.	Est. Est+OE Cum Daily	S: DH Cesh 0 0 18,127 RY OPER: 6 / 6	COSTS D DH MOH Com 0 0 0 0 0 0 SCRIPTION	iti) 24 HR RO (ft) PROPOSE 50 AFE Days RLG & Comple 0 0 0 0 0 1 N F/A: N	P: ED TD: +/- Goal: OMP IOH Conteng 0 0 0 0 0 0 0 1,013	38. 8,000 (TOTAL
CSG 13.375 ME: LEVELI LEVEL LEVEL OO SAFETY NCIDENT TYPI L: PT O N1	MD 304 NG DERRIGRIG & CON MTGS ATT CODE 003 007	CK ITINUE DRI ISAFE DRILL F CONTIN POH LA HRS	LLING SAFI DAYS SIN TY COMMI	ETY S ICE LAS ENTS: ATION 795' B LING.	Est. Est+OE Cum Daily	S: DH Cesh 0 0 18,127 RY OPER: 6 / 6	COSTS D DH MOH Com 0 0 0 0 0 0 SCRIPTION	(ft) PROPOSE 50 AFE Days RIG & CompN 0 0 0 0 0 0 N F/A: N	ED TD: +/- Goal: DMP IOH Conteng 0 0 0 0 0 1,013	8,000 (
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2 1RR 12 1 2 12 RUN BIT # 1 2 3HA # 2 BHA WT B	250 S 250 WEAT WOB 3/5 BIT #2 ELOW JARS	RPM 30 / 35	F-2 PDC	GPM F	SERIA PRESSUR BHA S/	BIT OPE E PBIT / HOLE OWT	RATION HRS 22.50 CONDI	1FA ////////////////////////////////////	DEP	24HR ROP 59.69	CUM HR 32.00 ON/OFF	s cum i	DEPTH 11.0	CUM ROF
2 1RR 12 1 2 12 RUN BIT # 1 2 3HA # 2 BHA WT B	WOB 3/5 BIT#2 ELOW JARS	RMith HERFOR RPM 30 / 35	F-2 PDC	GPM F	SERIA PRESSUR BHA S/	BIT OPE	RATION HRS 22.50 CONDI	1FA 	OEP	24HR ROP 59.69 TORQUE	CUM HR: 32.00 ON/OFF (ft-lbf)	S CUMI	DEPTH 11.0 HRS	CUM ROF 56.59
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2 1RR 12 1 2 12 RUN BIT # 1 2 3HA # 2 BHA WT B	250 S 250 WEAT WOB 3/5 BIT #2 ELOW JARS (klb) 338.27 N:1-Polycryst	HERFOR RPM 30 / 35	F-2 PDC P/U (k MIN ID: ond Bit, 1	GPM F WT (lb)	SERIA PRESSUR BHA S/ 2.312 R, 3-Drill (BIT OPE E PBIT / HOLE O WT (kib)	RATION HRS 22.50 CONDI RT (k)	NS 24HR 1,2 TIONS WT	EFTG 2	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS	CUM HR: 32.00 ON/OFF (ft-lbf)	S CUMI 1,8	DEPTH 11.0 HRS	56.59
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2 1RR 12 1 2 12 RUN BIT # 1 2 BHA WT B BHA LENGTH:	WOB 3/5 BIT #2 ELOW JARS(klb) 338.27 N.1-Polycryst	RPM 30 / 35	F-2 PDC (b) P/U (k) MIN ID:	GPM F WT (lb)	SERIA PRESSUR BHA S/ 2.312 R, 3-Drill (BIT OPE P BIT / HOLE O WT (kib) Collar, 1-Cro	RATION HRS. 22.50 CONDI (k) SS Over, 8-1	NS 24HR 1.3 TIONS WT	DEP	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM I 1,8	DEPTH 11.0 HRS	CUM ROF 56.59 ON JARS
2 1RR 12 1 2 12 RUN BIT # 1 2 SHA # 2 BHA WT B SHA LENGTH: SHA DESCRIPTIO	WOB 3/5 BIT #2 ELOW JARS(klb) 338.27 N.1-Polycryst	HERFOR RPM 30 / 35	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63	GPM F WT kib) -HAMME	SERIA PRESSUR BHA S/ 2.312 R, 3-Drill (BIT OPE P BIT / HOLE O WT (kib) Collar, 1-Cro	RATION HRS. 22.50 CONDI (k) SS Over, 8-I MD	NS 24HF 1.3 TIONS WT b)	BHA HRS	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM I 1,8	DEPTH 11.0 HRS	CUM ROF 56.59 ON JARS
2 1RR 12 1 2 12 RUN BIT# 1 2 3HA#2 BHAWT B 3HA LENGTH: 3HA DESCRIPTIO MD INCL 1,340 1,000 1,800 1,000	### AZIMUTH 0.000 0.000	RPM 30 / 35 S stalline Diame TVD 1,039.77 1,499.70	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63	GPM F WT kib) -HAMME N/S CU	BHA S/ 2.312 R, 3-Drill (0.00 0.00	HOLE O WT (kib) Collar, 1-Cro SURVE 0.09 0.00	### DETS OR 16/16/16/16/16/16/16/16/16/16/16/16/16/1	TFA VS 24HR 1.3 TIONS WT Ibb) Drill Collar, 1.500	BHA HRS	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM 1 1.8 CTION: 34	DEPTH 11.0 HRS	CUM ROF 56.59 ON JARS
2 1RR 12 1 2 12 RUN BIT # 1 2 BHA # 2 BHA WT B BHA LENGTH: SHA DESCRIPTIO MD INCL 1,340 1.000 1,800 1.000	### AZIMUTH	RPM 30 / 35 S salline Diame TVD 1,039.77 1,499.70	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63 29.66	GPM F WT kib) -HAMME N/S CU	BHA S/ 2.312 R, 3-Drill (0.00 0.00	HOLE O WT (kib) Collar, 1-Cro SURVE MOOGLEG 0.09 0.00 ERSON	RATION HRS. 22.50 CONDI (k Y DATA NEL DA	TFA 24HR 1.3 TIONS WT Ibb) Drill Collar, 1.500	BHA HRS	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS H TVD 1,928.60	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM 1 1,8 CTION: 31	DEPTH 11.0 HRS 8	CUM ROF 56.59 ON JARS UMDOGLEG 0.12
2 1RR 12 1 2 12 RUN BIT# 1 2 SHA#2 BHA WT B SHA LENGTH: SHA DESCRIPTIO MD INCL 1,340 1.000 1,800 1.000	250 S 250 WEAT WOB 3/5 BIT #2 ELOW JARS (klb) 338.27 N:1-Polycryst AZIMUTH 0.000 0.000	RPM 30 / 35 S salline Diame TVD 1,039.77 1,499.70	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63 29.66	GPM F WT kib) -HAMME N/S CU	BHA S/ 2.312 R, 3-Drill (0.00 0.00 P	BIT OPE P BIT HOLE O WT (kib) Collar, 1-Cro SURVE MOOGLEG 0.09 0.09 0.00 ERSONI MAN HRS	RATION HRS 22.50 CONDICTOR (k) ss Over, 8-1 Y DATA MD 2.229	TFA 24HR 1.2 TIONS WT Ib) Drill Collar, 1.500	BHA HRS AZIMUT 0.000	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM 1,8	DEPTH 11.0 HRS 8	CUM ROF 56.59 ON JARS UM DOGLE 0.12 POB: 17 MAN HRS
2 1RR 12 1 2 12 RUN BIT# 1 2 BHA WT B BHA LENGTH: BHA DESCRIPTIO MD INCL 1,340 1.000 CHEVRON TEXAC	250 S 250 WEAT WOB 3/5 BIT #2 ELOW JARS (klb) 338.27 N:1-Polycryst AZIMUTH 0.000 0.000 COMPATO	RPM 30 / 35 S salline Diame TVD 1,039.77 1,499.70	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63 29.66	GPM F WT kib) -HAMME N/S CU	BHA S/ 2.312 R, 3-Drill (0.00 0.00 P	BIT OPE PBIT HOLE O WT (kib) Collar, 1-Crox SURVE MDOGLEG 0.09 0.00 ERSONI MAN HRS 24.00	RATION HRS 22.50 CONDI (k ss Over, 8-I MD 2,229 NEL DA PATTERS	NS 24HR 1,2 TIONS WT Ib) Drill Collar, 1,500 TA	BHA HRS AZIMUT 0.000	24HR ROP 59.69 TORQUE (ft-lbf) / S SINCE LAS H TVD 1,928.60	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM 1,8	DEPTH 11.0 HRS 8	CUM ROF 56.59 ON JARS UMDOGLE 0.12 POB: 17 MAN HRS 144.00
2 1RR 12 1 2 12 RUN BIT# 1 2 SHA#2 BHA WT B SHA LENGTH: SHA DESCRIPTIO MD INCL 1,340 1.000 1,800 1.000 CHEVRON TEXAC CALLAWAY SAFE	250 S 250 WEAT WOB 3/5 BIT #2 ELOW JARS kib) 338.27 N:1-Polycryst AZIMUTH 0.000 0.000 COMPAI	RPM 30 / 35 Salline Diame TVD 1,039.77 1,499.70	F-2 PDC P/U (k MIN ID: ond Bit, 1 VS 21.63 29.66	GPM F WT (lb) -HAMME N/S CU 21.63 29.66	BHA S/ 2.312 R, 3-Drill (0.00) 0.000 P	BIT OPE E PBIT HOLE O WT (kib) Collar, 1-Cro SURVE MOOGLEG 0.09 0.09 0.00 ERSONI MAN HRS 24.00 24.00	RATION HRS 22.50 CONDI RY (k ss Over, 8-1 MD 2,229 NEL DA PATTERS WEATHER	TFA 24HF 1,3 TIONS WT b) Drill Collar, 1,500 TA GON DRLG RFORD	BHA HRS	24HR ROP 59.69 TORQUE ((ft-lbf) / 6 SINCE LAS H TVD 1.928.60	CUM HR: 32.00 ON/OFF (ft-lbf) ST INSPEC	S CUM 1,8	DEPTH 11.0 HRS 8	CUM ROF 56.59 ON JARS UM DOGLE 0.12 POB: 17 MAN HRS 144.00 48.00
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1	ATE: 12/5							MD/TVD	r.	3,010 (ft)	/ 3,010 (ft)	24 HR R	OP:		54.35
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		0.50	PT	012	_	1 1/2 0									
10:30	14:30	4.00	PT	003			D' TO 3010'		1/2 DEC	<u> </u>					<u> </u>
14:30	15:00	0.50	PT	005			HOLE W/A								
15:00	18:00	3.00	PT	007			DOMN 3 8.								
18:00	19:00	1.00	PT	010											
19:00	01:00	6.00	PT	030	RUN 69 JTS. 9 5/8" J-55 LTC 36# CSG. SHOE @ 3010 & FLOAT COLLAR @ 2965' PUMP 345 SKS CLASS "G" LEAD CMT WITH 12%D20,1%D79,0.5%D112,0.2%D46,2%S1 &0.25										
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	(klb)		(k	(b)	T	(klb)	(k	lb)		(ft-lbf) /				
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CHEVRON TEXACO

	CHEVRON TEXACO MORNING REPORT			e 2 of 2
Well Name: SWD # 5	WBSE: Comments	API: 43-015-30510	Rpt#: 11 Da	ate: 12/16/2001
LEE VAUGHAN CELL# 915 642 0464		<u> </u>		
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CHEVRON TEXACO Page 1 of 1 MORNING REPORT

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3HA LEN	IGTH:	813.45		MIN ID:		2.250			ВН	A HRS SINCE	E LAST I	NSPEC	TION:	: 12	
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SPUD DATE: 12/5/2000			(,				MD/TVD:		3,485 (ft) / 3,48					25.68
RIG: PATTERSON # 5 5							FOOTAG	E:	,			ROPOS			8,000 (ft)
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	<u> </u>						Daily	11,8	52	0	60,89	4	0	6,475	79,220
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2 1RR 12.250 Smi							10/10/10/				.				+
1 2 12.250 WEATH		PDC									-			+	
1 2 8.750 Smi	ith	F-15H	517X	***************************************		TABLE TABLES	15/15/15		3	,010.0	Book with the second	0.00 8-46/80.00			880 KB 880 J. J. J. 32 6
				· · · · · · · · · · · · · · · · · · ·			RATIO		 	,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
RUN BIT# WOB	RPM		GPM I	PRESSU	RE P	BIT	HRS	24⊦	RFTG	24HR F	ROP C	UM HR	S CUM	DEPTH	CUM ROP
1 2 45/50	50 / 55	5	401	1,300			18.50		475	25.6		18.50	47	5.0	25.68
BHA#3 BIT#2			13	:, BH/	A/HC	DLE	CONDI	TIONS							
BHA WT BELOW JARS		P/L	JWT		S/O WT		RT		1	TOR	QUE OI	V/OFF		HRS	ON JARS
(klb)		()	klb)		(klb)		(k	lb)		(ft-	-lbf) / (fi	t-lbf)			
BHA LENGTH: 813.45	1	VIN ID:		2.250					вна н	RS SINC	E LAST	INSPE	CTION: 3	7	
BHA DESCRIPTION:1-Tri-Cone B	it, 1-Cros	s Over, 2	27-Drill Co	ollar, -											
			TE signification on	.ie,e:H	/DRA	UI I	CS / PU	MPS	45.5				. ::	2365	
FLOW RATE: 401.17 HSI:			IMPACT:			ETVE		0.0 AV I			AV E	P:		ECD	
# PUMP	LINE		STROKE			GPM	PRES		EFF %	SPM1/S	SPR1 F	RES (p	si) SPM	SPR2	PRES (psi)
1 D-1000		6.000	20.2		115	401.1		1,300	95.0			сья ", ро <u>ські і</u> МБа	Combusciiiiiiiii	/	ingsmeth. "CM#886"."
	1 3	0.000	TELEVISION IN CONTRACTOR	suuskusmiii dha	mine a manufacioni	\$1AJ. (1882)	NEL DA	(836880002	30.0		3.1.52	و در اور ده در	To validition on		DOD: 40
COMPANY	<u> </u>	* 875 PR	1			HRS		100000	COM		8 fd., e. disdin.	1.T. W. C. B. S.	ngo w 11 Kill NV 11	#	POB: 16 MAN HRS
			##25#17#	1	24.	27-11-22 25-20-2		2000 THE . U							
CHEVRON TEXACO				· · · · · · · · · · · · · · · · · · ·			PASON N							2	24.00
CALLAWAY SAFETY			-	1 1	24.		M-I MUD	ENGINE	EK			· . 		1	2.00
PATTERSON DRLG	dadinan er ar e		<u></u>	11	144	C 1971-141	1					mikandidala			LILLINGS BY SWIPE PART
		Emiliar Property and	D/	AILY C	PER	ATIC	NAL C	OMME	NTS	· · · · · · · · · · · · · · · · · · ·		eer Tuffi ii. Waa aan			
6 DAYS + 18 HRS FROM SPU	D														



CHEVRON TEXACO

MORNING REPORT API: 43-015-30510 Rpt #: 13 Date: 12/18/2001 Comments LEE VAUGHAN CELL# 915 642 0464



CHEVRON TEXACO Page 2 of 2

	MORNING REPO)KI		
Well Name: SWD # 5	WBSE:	API: 43-015-30510	Rpt#: 13	Date: 12/18/2001
	<u>Comments</u>		* X 1 X 1 Fig. 1 A X 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	
LEE VAUGHAN CELL# 915 642 0464				
				Ī



Page 2 of 2

	Maria de la companya del companya de la companya del companya de la companya de l			
Well Name; SWD # 5	\	VBSE:	API: 43-015-30510	Rpt #: 14 Date: 12/19/2001
		MUD MATE	RIAL USED	
DESCRIPTION	Landa e	USED	DESCRIPTION	USED
CAUSTIC SODA		100 LB	POLY PLUS	20 GAL
DRAYAGE		0	SAWDUST	100 LB
ENGINEERING SERVICE		0	SODA ASH	550 LB
M-I BAR BAGGED		1,200 LB	MICA	200 LB
M-I GEL		5,000 LB	PAC REG	50 LB
PLASTIC SHEETS		0		
		PERSON	VEL DATA	POB: 16
COMPANY	#	MAN HRS	COMPANY	# MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2 24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1 2.00
PATTERSON DRLG	11	144.00		
	30x 4./4 (A		Will annually a	

DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS



CHEVRON TEXACO Page 1 of 2 MORNING REPORT

			i i i i i i i i i i i i i i i i i i i			,										
Well Name: SWD # 5				WBS	E:_		<u> </u>	NPI: 43-015-305	i10 Rota	#: 15 Date	12/20/2001					
WELL INFO		ELI	EVATIO	330 6 6 A.				control of the contro	TH/DAYS	Julie	,					
FIELD: HUNNINGTON	RKB:		08.00 (ft)	<u></u>	200	12-111-20000000000000000000000000000000	en a approx	5A3	DOL/DFS:		15.00 / 9.00					
SPUD DATE: 12/5/2000						MD/TVD:		4,000 (ft) / (ft) 24 HR ROF	; د	15.00					
RIG: PATTERSON # 5 5						FOOTAG		345 (ft) PROPOSE	D TD:	8,000 (ft)					
DRLG SUPRS:	NEXT CSG: 7.000 (in) @ 8,000 (ft)					DRILL HRS: 23.00 AFE Days +/- Goal:										
HACK BLANKENSHIP			CASIN	lG .	30 24 . o . o . o . o . o . o . o . o . o .			COSTS D	RLG & CC)MP						
RIG PHONE: 435 687-2197 CELLPHONE: 903 520-0567	CSG	MD	מעד	TOL	LO LNR		DH Cash	DH MOH Comp			TOTAL					
ENGR:	9.625	3,010	3,010		N	Est.	0	o	0	0 0	C					
DALE MITCHELL	13.375	304	304	-	N	Est+OE	o	o	0	0 0	a					
			-			Cum	0	0	0	0 0	y o					
CURRENT OP AT REP TIME:	DOUGLE		01.6.42	001		Daily	71,496	0	0	0 6,350	77,846					
			OH @ 400 // POSSIB		nip qu											
CANTILL OF ENATIONS.	STATEL AF		7 FUSSIB	Communication Communication	y		mxx2*	000000000000000000000000000000000000000	Windle ou		e 11.110pmm					
MANHRS WORKED: 218.00 S	AFETY	ATGS AT	TTENDED				RY			30\						
	NT TYPE:						OPER: 13 /			GOVT INSP?						
	NI ITPE:		SP		MMENIS:	USING TAIL	- KOPE WH	EN LIFTING W/	OVERHEAD L	IFTS						
INCIDENT DESCRIPTION:	aliconomica de	77	·				. ilan araşılıkl a rilikleri				JIIMAGU V II					
	1	pos.		OPE	RATIO	N SUMN	IARY									
	/NPT	CODE					· ····	SCRIPTION								
06:00 16:00 10.00	PT 002 DRILL FROM 3655' TO 3803', ROP 14 FPH															
16:00 16:30 0.50	PT 009 SAFETY MEETING & RIG SERVICE															
16:30 19:00 2.50	PT 002 DRILL FROM 3803' TO 3834', ROP 12 FPH															
19:00 19:30 0.50	PT 012 SURVEY @ 3789' = 5-1/2 DEGREE															
19:30 06:00 10.50	PT 002 DRILL FROM 3834' TO 4000', ROP 16 FPH															
			18 S. S. S.		UD PRO			DAILY COST	1,607	CUM COST	4,017					
TIME DEPTH WT VIS	TEMP P	V/YP C	SELS V	VL/HTHP		SAND% CE		m/Pf Chi	1 14 14 14 14 14		E LGS/DS%					
11:30 3,724 8.90 37	70 1	12/9	3/7	10.0/	4.0	**************************************	10.00 1.0		40 /	/ WATE						
1000	- 01118111181818			iliani esa		TS		200	7723188	an Contra	10.1					
RUN BIT# SIZE MANUF	FACT	TYPE	IADC	SERIAL		JETS OR		T	EPTH OUT	i ob L	BGOR					
2 1RR 12.250 Smi		F-2				16/16/16//	********** **************************	T. T		()						
1 2 12.250 WEATHE		PDC						1		 						
1 4 8.750 Smil		F2H	517X	MJ329	3	14/14/14//		3,609.0			 					
	ui		J 917A	111111111111111111111111111111111111111	99000000000000000000000000000000000000		50250000000000000000000000000000000000				0 1 (44)(68)(8)					
RUN BIT# WOB	RPM	a Taris	gрм. Грі		IT OPE	100000000000000000000000000000000000000			Section 1	T III III III III III III III III III I						
	····		оги: Н	RESSURE	PBII	HRS	24HR F		-	CUM DEPTH	- management appro-					
1 4 35/45	60 / 70			1,500		23.00	345	15.00	26.50	391.0	14.75					
BHA#4 BIT#4							IONS									
BHA WT BELOW JARS			WT		S/O WT		RTWT		TORQUE ON/OFF		ON JARS					
(klb)			(klb)	_	(klb)	120 (k	·) / (ft-lbf)							
BHA LENGTH: 850.55		IIN ID:		0.000				IA HRS SINCE L								
BHA DESCRIPTION:1-Tri-Cone Bit Collar	t, 1-Bit Su	ıb, 2-Dril	i Collar, 1-l	Intergral B	lade Stabiliz	er, 1-Drill Co	ilar, 1-Interg	ral Blade Stabilize	er, 21-Drill Colle	₃r, 1-Drilling Jar,	3-Drill					
Section 1				НАС	RAIIII	S/PIII	MPS									
FLOW RATE: 401.17 HSI:			MPACT:		00 JET VE	L: ∩	.0 AV DC:		AV DP:	ECD						
# PUMP	ar Europea Santa (National Santa	·	TROKE (i		THE PROPERTY WHITE		osi) EFF			SPM2/SPR2						
1 D-1000	1 * 80.385sis. zv	6.000	10.00		8880 G-00 N T-				7,07,00	SEMMOSPRZ	FRES (psi)					
				·					/ 	1 /						
2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			NIC CLIN	7	SURVE											
VN 31 19"		VS		114444	DOGLEG	MD	INCL A	ZIMUTH TVD	VS N	IS CUMENV C	UMDOGLEG					
	484.88		128.90	0.00	0.89											
				MUI	MATE					Comment						
DESCR	RIPTION				USED		· · · · · · · · · · · · · · · · · · ·	DESCRIPTION	NC		USED					
DRAYAGE					0	PLASTIC S	HEETS				0					
ENGINEERING SERVICE											<u> </u>					
ENGINEERING SERVICE					0						5 GAL					
ENGINEERING SERVICE M-I GEL					0 2,800 LB	POLY PLU					5 GAL 100 LB					



Page 2 of 2

Well Name: SWD # 5	WBS	SE:	API: 43-015-30510 Rpt #: 15	Date: 1	2/20/2001
	М	UD MATE	RIALUSED	(822)	a new part
DESCRIPTION		USED	DESCRIPTION		USED
DEFOAM X		5 GAL	PAC REG		50 LB
MICA		500 LB	MULTISEAL		280
	ilian .	PERSONI	NEL DATA		POB: 16
COMPANY	#	MAN HRS	COMPANY	#	MAN HRS
CHEVRON TEXACO	1	24.00	PASON MUD LOGGERS	2	24.00
CALLAWAY SAFETY	1	24.00	M-I MUD ENGINEER	1	2.00
PATTERSON DRLG	11	144.00			

DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS



1000 (MEQNO		. 1865 1988												
	ame: S\					WBSE	•	*** <u>**</u>		API: 43-0	15-3051	n Rota	#: 16 Date:	12/21/2001
	ELL I		-, 40	FI	EVATI	COLORDON CO						H/DAYS	7: 10 Detc.	1272 172001
	HUNNIN		RKB:		908.00 (ft)	940 0 No	24013			<u> </u>	DEF:	DOL/DFS:	75.01.5101812400	16.00 / 10.00
SPUDE	DATE: 12	2/5/2000		,	` '			MD/TVD:		4 251 (ff) /	3 945 (ff)	24 HR ROF	5 .	16.19
RIG: PA	TTERS	ON # 5 5						FOOTAG		1,401 (11)1		PROPOSE		8,000 (ft)
DRLG S	SUPR\$:		NEXT	CSG: 7.	000 (in) @	8,000 (ft)		DRILL HE				AFE Days		0,000 (11)
HACK	BLANKE	NSHIP	80,000	ķ14	CASI	2200 March 1920 (1920)					×		10000A	
RIG PH	ONE: 43	5 687-2197	csg		1							LG & CC		
CELLPH	HONE: 90	03 520-0567			TVD	TOL			DH Cash	DHMOF	Compt	ash CompM	OH Conteng	TOTAL
ENGR:			9,625		3,010		N N	Est.		이	0	0	0 0	C
DALE	MITCHEL	L	13.37	5 304	304	İ	N	Est+OE		0	0	0	0 0	c
]				Cum		0	이	0	0 0	C
CHODE	NT OD A	T DED TIME		10 1111 1	<u> </u>	l		Daily	29,32	8	0 17	,555	0 3,888	50,772
		T REP TIME			T # 5 @ 4	251'								
PLANN	D OPE	RATIONS:	DRILL		mineral de la company	COCIENOTANA .	0.11	V/						
						SA							Salar Torra State (1986)	
MANHR	S WORK	KED: 280.00	SAFETY	MTGS A	TTENDE	D: 1 DAYS S	SINCE LAS	T LTA RIG	/OPER: 14	1/14	REC: N	F/A: N	SOVT INSP?	
INCIDE	ON STA	INCI	DENT TYP	E:	s	AFETY CON	MENTS: 0	SOOD HOL	JSEKEEP	ING & PRO	PER PPE			
INCIDE	NT DESC	CRIPTION:												
						ODE	DATION	I CI INAN	4 A 15 N/	16.72 · 1.794		<u></u>		
FROM	Тто	HRS	P/NPT	COD	**************************************	UFC	RATION				a.i.			
· · · · · · · · · · · · · · · · · · ·	*	0,199			- FEET OF REALTH	V	000175	0501		ESCRIPT	אט	Mir-		
06:00	10:00		PT	002		L FROM 4								
10:00	10:30		PT	012	SUR	VEY @ 40	<u>08' = 4</u> -1/2	DEGRE	E,SAFET	Y MEETIN	1G			
10:30	14:00	3.50	PT	002	DRII	L FROM 4	053' TO 4	101', ROF	2 13 FPH	I, BIT TOR	QUED			
14:00	14:30	0.50	PT	005	CIRC	CULATE, P	UMP SLU	IG. & DRO	OP SURV	/EY @ 408	36'			
14:30	16:30	2.00	PT	007		H W/BIT								·····
16:30	18:00		PT	006		BIT # 5 & 1				<u>-</u>				
18:00	19:00			1					·					
		+	N1	025		AIR LOCK								· ·
19:00	20:00	——————————————————————————————————————	N1	032	SLIP	& CUT 11	0' DRILLIN	IG LINE						
20:00	21:30	1.50	PT	006	TIH.	ΓΟ 4060'								i
21:30	22:00	0.50	PT	029	WAS	H & REAN	140' TO B	MOTTO				,		
22:00	06:00	8.00	PT	002	DRIL	L FROM 4	101' TO 4	251'. ROF	18 FPH					
nasque, in				lor.	- ,		JD PRO		83 (S) (C) (C)	DAILY	COST	1 //50	CUM COST	5,476
TIME	DEPTH	WT VI	S TEMP	PV/YP (SELS \	VL/HTHP	SOLIDSS						· · · · · · · · · · · · · · · · · · ·	
15:00	4,101	8.90 37		30.4	4/14	9.0/	27 5 T AND 1		W. C.		- T		ES/ExL TYPE	100110000000000000000000000000000000000
15.00		1 0.90 37						0.25		38855	00 12	V10.15. 80 1	/ WATE	R /4.3
, T	1 712						Bi1					8.46	VIII.	***
***************************************	BIT#		NUFACT	TYPE	IADC	SERIAL #	<i>t</i>	JETS OR	TFA	DEPTH	IN DE	PTH OUT	I O D L E	GOR
2	1RR	12.250	Smith	F-2				16/16/16//	(11/1					
1	2	12.250 WEA	THERFOR	PDC										
1	4	8.750	Smith	F2H	517X	MJ3293		14/14/14//	////	3,609	.0	4,101.0	6 BT A 4	4 WT TQ
1	5	8.750	Smith	F15	517X	MG9184		15/15/15//		4,101		-,	1	+ + + + + + + + + + + + + + + + + + + +
	ur ·	·······································		-	- 12 will		S 49.		0.15	4,101		HIRLAND		W 1
2000-000	BIT#	WOB	T	.233	CDM In		T OPER		321				-12	ĭ
			RPM			RESSURE	PBIT	HRS	24HR	100000000000000000000000000000000000000	HR ROP	CUM HRS	CUM DEPTH	CUM ROP
1	4	35 / 45	60 / 7		401	1,500	648	7.50	10	1	13.47	34.00	492.0	14.47
1	5	40 / 50	60 / 7	0	401	1,400	492	8.00	15	0	18.75	8.00	150.0	18.75
BHA # 5		BIT#		William.		BHA/	HOLE (CONDIT	IONS				3.00	
E	BHA WT	BELOW JAR	:S	P/U	IWT	S/O		RTW	1	Т	ORQUE	ON/OFF	HRS	ON JARS
		(klb)	1	125	(klb)	120 (123 (k	—-· ·-+	·	(ft-lbf) /			
BHA LEN	IGTH:	850.55		MIN ID:	····/	0.000	 /			DLIA LIDO D			101	
												ST INSPECT		
BHA DES	SCRIPTI		e Bit, 1-Bit S	sub, 2-Dri	II Collar, 1	Intergral Bla	de Stabilize	r, 1-Drill Co	ollar, 1-Inte	rgral Blade \$	Stabilizer,	21-Drill Colla	r, 1-Drilling Jar,	3-Drill
		Collar		,	usi T. Jinamo 🚧	380.								
	ned semp. April Hidd		a cionic o			HYDI	RAULIC		VIPS	- 44,000			ACT THE	
LOW R	ATE:	802.34 HSI			IMPACT:	459.4			.5 AV DC		*****	/ DP:	ECD	
#		PUMP	LINE	R (in)	TROKE (in) SPM	GPM	PRES (p	osi) EF	F% SP	/1/SPR1		SPM2/SPR2	PRES (neil
1 0	-1000	e matten gues - Melle a terrer		6.000	10.0			1	400	95.0	7		, , , , ,	SEA (hai)
					.5.0			1	-201	33.0				



									.,,,				•							
	ame: S\								WBSE					API: 4	3-015-3	0510	Rpt /	 4 17		2/22/2001
	ELL I				-l				IS						DE	РТН	/DAYS			
•	HUNNIN				RKB:	5.9	00.806	ft)									DOL/OFS			7 00 / 11 00
	DATE: 12				l							MD/TVD		4,706	(ft) / 4,40;	2 (ft)	24 HR ROF	,		20.22
DRLG 5	ATTERS	UN #	5 5									FOOTAG			455	5 (ft)	PROPOSE	מז ס		8.000 (ft
	BLANKE	Neu	10		NEXI	CSG: 7.	000 (in)	@ 6.0	00 (ft)		-,	DRILL H	RS		2	2.50	AFE Days	t/- Goal.		
	ONE: 43				-		CAS	ING	<u> </u>			1.		C	OSTS	DRL	G & C	MP		***************************************
	10NE: 9				CSG	MD	TVD	T	OL	LO	LNR		DH Cas				sh CompM		nteng	TOTAL
ENGR:					9 625	3,010	3.010)		·	N	Est.	I manuscript and a second	0	0		0	0	0	
DALE	MITCHE	.L			13.375	304	304	İ	1	1	N	Est+OE	!	0	0		0:	0	o!	
									İ	į		Cum		0	O ^c		O	0	0	
					. l	l <u></u>		1		į		Daily	13,;	385	o		o	O	538	13,92
	NT OP /				ORILLIN		@ 470	6,						,				,		
PLANN	ED OPE	RATI	ONS:		DRILL A	HEAD														
									SA	FFT	Υ 9	SUMMA	RY							
MANHE	IS WOR	KED:	226.00	S	AFETY	MTGS A	TTEND	ED 1	DAYS:	SINCE	LAS	T LTA RIC	VOPER	15 / 15			F/A N (· · · · · · · · · · · · · · · · · · ·
INCIDE	NT7 NO		INC		NT TYPE												ECHNIQUE		5F1	
NCIDE	NT DESC	RIP						1				MIVING CL	TEMICAL	a PROP	ER LIFTI	NG 18	CHNIQUE	.S		
		J. 111.	1011																	
	1 ==			T					OPE	RAT	101	N_SUMI	MARY							
FROM		$\overline{}$	HRS	P	/NPT	COD	<u> </u>							DESCR	PTION					
06:00	13:00	2 .	7.00	ļ	PT	002	DF	RILL F	ROM 4	251	ro 4	1396', RO	P 20 FP	'H						
13:00	13:30)	0.50		N1	009						G SERVI								
13:30	22:00)	8.50		PT	002						1584', RO								
22:00	23:00	7	1.00	† ···-	PT	012							_	H						
23:00	06:00	-+-		†								4 DEGRE								
23.00	1 00.00	, ,	7.00	<u> </u>	PT	002	[D)	KILL F				1706', RO		Н						
									M	JD F	RC	PERTI	ES	DA	ILY COS	Т	859	CUM	OST	6,335
TIME	DEPTH	<u></u>	VT V	/IS	TEMP F	PV/YP	GELS	WL	HTHP			SAND% CE		Pm/Pf	Chi	Ca	Oil%/OV	/ ES/Ext	TYPE	LGS/DS%
11:00	4,368	8	.90 ;	38	70	11/8	3/8	10	3.4/	5.0)	0.25	9.00	0.4/0.10	200	40	7	/	WATE	
										•	RI	TS	···				· · ·	<u> </u>	1111111111	, ,4.0
RUN	BIT#	SIZ	E M.	ANUF	ACT	TYPE	IAD	C S	SERIAL	#		JETS OR	TEA	DE	PTH IN	DEB	тн оит	. Iala	J. 15	Tatala
2	1RR	12.2	50	Smi	th	F-2						16/16/16/				JUEF	14 001	1 0 0	LB	GOR
1	2	12.25	o WE		RFOR	PDC				-		10/10/10/	""" - · -	- .				1 1	1.1	
1	5	8.75		Smi		F15		 - :											[].	_ _
,		9.73		Sittle	(i) j	F 15	517	<u> </u>	MG9184			15/15/15/	111111	4	,101.0]	
				-					B	LO	PER	RATION	IS							
RUN	BIT#		VOB		RPM		GPM	PRE:	SSURE	PB		HRS		RFTG	24HR R	OP	CUM HRS	CUME	DEPTH	CUM ROP
1	5	45	/ 55		65 / 75	; [401	1,	500	493	2	22.50		455	20.22		30.50		5.0	19.84
HA # 5			BIT#	Ţ,					ZLIA /	ЦΩ	<u> </u>	CONDI			20.23		30.30	100.	3.0	19.04
	HA WT	BEL	AL WO	RS	т.	P/I	WT		S/O		-=-			· ———						
		(klb					(klb)					RT		į			N/OFF		HRS	DN JARS
HA LEN	ICTH:		′ <u>-</u> 50.55				(KID)	1	125	(киз)	- 1	132 (kib)			bf) / (!		
					1	AIN ID:		0.0			. I.			BHAH	RS SINCE	LAS	TINSPECT	TION:		
HA UE:	SCRIPTI	ON.1	-Tri-Coi	ne Bit	t 1-Bit Si	ub. 2-Dr	lf Collar,	1-Inte	rgral Bla	do Sta	biliz(wr. 1-Drift C	ollar, 1-in	torgral Bl	ade Stabil	izor, 2	1-Drill Colla	r, 1-Doll	ing Jayr, 3	-Dritt
			ollar				<u> </u>													
									HYD	RAU	LIC	S/PU	MPS				-			
OW R	ATE:	401	.17 HS	31:		1.915	MPACT	r:		d JET			3.6 AV D	C.		AV	DP:		ECD	
#		PUN	AP		LINE	₹ (in) \$	TROK	E (in)	SPM	GF	M	PRES (FF %	SPMI/SI	. 1	PRES (pai)	COMO		
2 (-1000					6.000	10	0.000	115	- 	01 1/		15		01 14170		LIVES (Dai)	35.012	SFR4	RES (DSI)
												<u></u>		95.0				_ <u></u>	/	· ··
MD	INCL	T.	ZIMUT	L4	700		Ta			UR	VE)	LDAT		·,						
		-		_+-	TVO	VS	+		м сим	DOGL	EG	MD	INCL	AZIMU	TH T	/D	VS N	/S CUM	EW CU	MOOGLEG
4,569	1 750	!	0.000	4.	263.11	179 21	179 2	21	0 00	0.52	۱ ۱	i i				i				
	-								MUD	MA	TEI	RIAL U	SED							
			DE	SCR	IPTION					USEC					ESCRIP	TION			1	USED
VGINE	RING S	ERV	CE						• • • • • • • • • • • • • • • • • • • •		#-	LIGNITE		• •					+	
-I GEL						·				200	#			-						300 LB
OLY PL	us											SODA ASI	1							800 LB
					-			- 1		5 G	AL !	PAC REG								100 LB



Page 2 of 2

Well Name: SWD #5	WB	SE:	API: 43-015-30510	Rpt# 17	Date: 1	2/22/2001
		PERSON	NEL DATA			POB: 18
COMPANY	#	MAN HRS	COMPANY		#	MAN HRS
CHEVRON TEXACO	1	24 00	M-I MUD ENGINEER		1	2.00
CALLAWAY SAFETY	1	24 00	NIELSON CONSTRUTION INC		1	2 00
PATTERSON DRLG	11	144 00	SWACO		1	6.00
PASON MUD LOGGERS	2	24 00				

DAILY OPERATIONAL COMMENTS
NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS

Printed: 12/22/2001 6:29:22 AM



									No.									
		WD#5					WB	/SE		 		API	l: 43-015-0	<u>30510</u>	J Rpt	<u>(#· 1</u>	18 Date	12/23/2001
	/ELL I					EVAT				1			DE	PT	H/DAYS	; ;		
_	HUNNIN			RKB	5,9	908 00 (11))								DOUDES	j.	•	18 00 / 12 00
		2/5/2000 ON # 5 5								MD/TV		4,87	76 (ft) / 4,57					13 08
DRLG S		ON#5:	1	NEVT		200 /:= \ 8	~ ~ ~ ~ ~ ~			FOOTA					PROPOS			8,000 (ft)
	BLANKE	сиеню		NEAT	CSG. 7.1	000 (in) (¢	a 8.000 (11	t)		DRILLI	HRS.			13 00	AFE Days	; +/- G/	oal:	
1		ENSHIP 35 687-21	107			_CASI	NG						COSTS	DR	LG & C	OMI	P	
		33 667-∡ 303 520-0		CSG	MD	TVD	TOL	LC	O LNR		DH C		H MOH C				Conteng	TOTAL
ENGR.	10144. 3	100 JEU-L	1907	9.625	5 3,010	3,010	1	•	: N	Est	ļ	0	0		01	0		
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		AT REP		DRILLII	NG @ 48	76'		1		! -					1		** * *	
PLANN	ED OPE	RATION	IS	DRILL /	AHEAD W	V/ BIT # 6	÷											
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MANHR	SWOF	KED: 22	מח אי	SAFETY	MTGS /	ATTENDE	D 1 DAY	AG GI	FETY S	SUMIN.	AK I	7. 40 / 10				1		
INCIDE			t · · · · · · · · ·														T INSP?	
				ENT TYP	E: 	15	SAFETY	COM	MENTS: 1	TRIPPING	3 PIPE 8	CHECK	KING ALL E	EQUIP	MENT SNI	UB LIN	NES ETC	
INCIDE	NT DES	CRIPTIC	JN:													•		
			-				QF	PFF	RATION	N SUM	MAR'	~						
FROM	ТО) HF	RS	P/NPT	CODI	c			473.1.3 ← 2.	M	IAIL		CRIPTION					
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07:30	1		+				ILL FROM				3P 11 F	:РH						
	08:0			PT	031		ANGE S											
08:00	11:0		·- •	PΤ	002								T SLOWE					
11:00	16:3	5.5	50	PT	007												4 DEGREE	z.
16:30	21:3	5.0	00	PΤ	006													- IS SWEEP
			1		1	& C	LEAN BO	OTT	OM	A		10.2	LI One,	C		FQ	P MOn v.	2 244 571
21:30	06:0	0 8.5	50	PT	002		ILL FRO			1076' R(12 F	 വേപ						
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TIME	DEPTH	1 WT	VIS	TEMP	PV/YP (GELS	WUHTH		D PRC				DAILY COS				UM COST	7,670
16:00	4.756	9,10		1				-	SOLIDS					c		WIES		
10.00	4,100	37,10	بد ا	75	8/6	3/7	12.0/		6.0	0.25	8.5	50 0 5/0	0 10 300	12	20 /		/ WATE	R /5.8
	T									TS								
RUN	BIT#	SIZE	MAN	UFACT	TYPE	IADO	SERI.	IAL#		JETS O	R TFA	1.	DEPTH IN	DE	PTH OUT	1 C	0 D L 8	GOR
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1	5	8.750	· • · · · · · · · · · · · · · · · · · ·	mith	F15	517X	K MG9	1194		40/45/1						1.	- _ . · ,	1 1 1
1	8	8.750		··					1	15/15/1			4,101.0	'	4,768.0	1.1	7 BT A 5	5 1 BT PR
<u> </u>	6	8.750	31	mith	F2H	517X			<u> </u>	15/15/15			4,768.0					
	—							BIT	LOPE	RATIO	NS_							
RUN	BIT#	WO	В	RPM	<u> </u>	GPM	PRESSU	RE	PBIT	HRS		4HR FTG	G 24HR I	ROP	CUM HRS	S CI	UM DEPTH	CUM ROP
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					-					<u> </u>		108	12.7	/1 +	8.50		108 0	12.71
8HA # 8			T#6		,				HOLE			IS.,						
	3HA W I	BELOV	V JARS	<u>'</u>	P/L	UWT		S/O V	v r	RT	rwr		TOR	OUE	ON/OFF	_	HRS	ON JARS
														1			!	
BHA LEN	NGTH:	850	55	i	MIN ID:		0.000		:	ı		ВНА	HRS SINC	TE LA	ST INSPEC	CTION	d-	
BHA DE	SCRIPT	ION 1-Tr	ri-Cone	Bit, 1-Bit 5	Sub. 2-Dr	ill Collar		i Blaci	i to Stabiliza	re 1.Ord	Collar 1						•Drilling Jar,	
		Colla	ar .						D 1,5144	M, therm	COME	-thurn gran	/ DidGO cates	MIZCH,	21-Umi Go	,dlaMr, 1∘	Drilling Jar,	3-Drill
																		
LOW R	ATE	401.11	- Lugi		1.054	*********			RAULIC									
	* E.	401.17				IMPACT		· · · · · · · · · · · · · · · · · · ·	JET VEI		48 5 AV	/ DC		A۱	V DP		ECD	
*		PUMP		LINE	ER (in)	STROKE	(in) SP	PM .	GPM	PRES	(pai)	EFF %	SPM1/	SPR1	PRES (pr	ai) SF	PM2/SPR2	PRES (psi)
2 [D-1000			1	6.000	10 (000	115	401 17	,	1,550	95	50	1	<u></u>	1	1	
								5										
MD	INCL	AZI	MUTH	TVD	vs	N/S CU	JME/W CI		URVE			4 A 71			T :			- <u> </u>
4,731	2 250		000	4,425 02	+					MD	INC	- AZII	MUTH T	TVO	VS	N/5 C	MWEW CE	UMDOGLEG
*		J G.	500.1	4,420 02	10407	184.87	7 0.00	1 :	0.31		<u> </u>	<u> </u>						i



Page 2 of 2

Well Name: SWD # 5	WB	SE	API: 43-015-30510 Rpt	# 18	Date	12/23/2001
		IUD MATE	RIAL USED			
DESCRIPTION		USED	DESCRIPTION			USED
CAUSTIC SODA		50 UB	POLY PLUS		1	15 GAL
ENGINEERING SERVICE			LIGNITE			600 LB
M-I BAR BAGGED		1,400 LB	SODA ASH			400 LB
M-I GEL		2,000 LB	PAC REG		1	150 LB
PLASTIC SHEETS			MULTISEAL		!	160
		PERSON	NEL DATA			POB: 18
COMPANY	#	MAN HRS	COMPANY		#	MAN HRS
CHEVRON TEXACO	1	24 00	M-I MUD ENGINEER	1		2 00
CALLAWAY SAFETY	1	24 00	NIELSON CONSTRUCTION INC	.	1	2 00
PATTERSON DRLG	11	144 00	SWACO		,	8.00
PASON MUD LOGGERS	2	24 00		•	!	3.00
	DAILVO	DEDATIC	MAL COMMENTS			

DAILY OPERATIONAL COMMENTS
NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ ALL CREWS





WellN	lame: S	WD	#5					V	VBSE:				API: 43	3-015-305	10 R	pt #	19	Date	12/24/2001
V	VELL	INF				۴ı	EVAT						, ,, ,, ,,		TH/DAY			Orno.	12/24/2001
	HUNNII				RKB:		908.00 (UEP			——		40.00 . 40.00
	DATE: 1				· · · ·	٥,٠	,, 00:00	"			MD/TVD		F 146 (4		DOLD				19 00 / 13.00
	ATTERS										FOOTAG	_	3, 140 (1		(t) 24 HR F		+		11.49
	SUPRS:				NEXT	CSG-7	000 (in)	<i>അ</i> .ജവവ	0 (6)		DRILL HE				(t) PROPO				8,000 (ft)
	BLANK		ND.		110011	000. 7			O (ity		UNICE HE	13.		23.5	50 AFE Da	ys +/-	· Goal.		
	ONE: 4				ļ		CAS	ING	··· · · · · · · · · · · · · · · · · ·		l		CC	STS D	RLG &	COI	MP		
	HONE:				CSG	MD	TVD] TO	L L	D LNR		DH Ca	sh DH M	OH Comp	Cash Com	pMO	H Cox	nteng	TOTAL
ENGR:		<i>3</i> 03 3	LU-030	•	9.625	3,010	3,010		Ī	N	Est		0	O	0		0	o	
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PLANN	ED OPE	RAT	IONS:				WIREL	_											
	SO WAS			- 1-							SUMMA					···· _γ ··· , ··			
	RS WOF						ATTEND	ED: 1	DAYS S	NCE LAS	T LTA RIG	/OPER	17 / 17	REC:	N F/A: N	G	NI TVC	SP7	
INCIDE	NT? NO)	IN	CIDEN	T TYPE	: :		SAFET	ГҮ СОМ	MENTS:	JSE LOCK	OUTS V	VHEN WO	RKING ON	I EQUIPME	NT			
INCIDE	NT DES	CRIE	TION:																
									0055	ATIO									
FDOA	4 70		1100						OPER	ALIUI	MUS.K	LAKY							
FROM		_	HRS		NPT	COD							DESCRI	PTION					
06:00	16:0	20	10.00		PT	002	DF	RILL FE	ROM 4 8	376' TO 4	1989', RO	P 11 F	2Н						
16:00	16:3	30	0.50	İ	PT	012	SU	JRVEY	& SAF	ETY ME	ETING								
16:30	06:0	00	13.50	1	PT	002	DE	2111 F	ROM 4	878' TO	5146', RO	D 11 E	pu						
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TIME					1						PERTI			LY COST			CUM (9,893
TIME	DEPT				EMP !	PV/YP	GELS	WUH	ITHP	SOLIDS	SAND% CE	С рн	Pm/Pf	Chi	Ca OI%	/OW	ES/Ext	TYP	E LGS/DS%
13:00	4,758	1	9.20	38	75	9/9	4/10	8.1	8/	6.0	0.25	8.0	0.3/0.10	200	280	/	1	WATE	R /6.5
										BI	TS							•	•
RUN	BIT#	SIZ	Έ i	MANUE	ACT	TYPE	IAC	c s	ERIAL#		JETS OR	TFA	DE	PTH IN	DEPTH OU	T I	00	LI	BGOR
2	1RR	12.2		Smi		F-2		- + -								' '	1015		3 9 0 7
	 				+						16/16/16/						+-+-		_ _ _
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1	16	8.7	da l				517		410000	1	15/15/15/	mm				- 1	1 1	1	
	_	0.7	30	Smi	h	F2H	317	^ 1	MJ3292		13/13/13/	mm	4,	,768.0		1	1 1		
	-	0.7	30	Smi	h	F2H	1 317	^ '		COPE			1 4,	,768.0		1			
RUN	BIT#		WOB	Smi	RPM		GPM		B[RATION	ış	· · · · · · ·		P CUM H	es l	CUMI) FOTH	CIMBOR
			WOB	Smi	RPM		GPM	PRES	BI	P BIT	RATION HRS	ış	HR FTG	24HR RO				ЕРТН	
1	6		WOB 15 / 55				1	PRES	B SURE	PBIT	RATION HRS 23.50	1S24	HR FTG 270		P CUM H			DEPTH 8.0	CUM ROP
	6 6	4	WOB 5 / 55 BIT #	6	RPM)	GPM 401	PRES	BI SURE 300	P BIT	RATION HRS	1S24	HR FTG 270	24HR RO					
1	6	4	WOB 5 / 55 BIT #	6	RPM)	GPM	PRES	B SURE	P BIT	RATION HRS 23.50	IS_24	HR FTG 270	24HR RO 11 49		5		8.0	
1	6 6	4	WOB 5/55 BIT# LOW J	6	RPM) P/I	GPM 401	PRES	BI SURE 300	P BIT HOLE	RATION HRS 23.50 CONDI	TION	HR FTG 270	24HR RQ 11 49 TORQL	32.0 JE ON/OFF	5		8.0	11.81
1 BHA#	6 6	T BE	WOB 5/55 BIT# LOW J	6	RPM 60 / 70) P/	GPM 401	PRES	B) SURE 300 HA / 5/0 \	P BIT HOLE	RATION HRS 23.50 CONDI	TION	HR FTG 270	24HR RQ 11 49 TORQL (ft-lb)	32.00 JE ON/OFF () / (ft-lbf)	5	37	8.0	11.81
1 BHA #1	6 BHA W	T BE	WOB 15 / 55 BIT # LOW J b)	6 ARS	RPM 60 / 70	P/I 14 MIN ID:	GPM 401 U WT 8 (klb)	1,6 0.0	B) SURE 300 S/O \ 130 (P BIT HOLE WT	RATION HRS 23.50 CONDI RT \ 136 (TION: WT	HR FTG 270 S BHA HF	24HR RO 11 49 TORQL (ft-lbf	32.00 JE ON/OFF () / (ft-lbf) LAST INSP	ECTI	37	8.0 HRS	11.81 ON JARS
1 BHA #1	6 BHA W	T BE	WOB 5/55 BIT # LOW J b) 850.55	6 ARS	RPM 60 / 70	P/I 14 MIN ID:	GPM 401 U WT 8 (klb)	1,6 0.0	B) SURE 300 S/O \ 130 (P BIT HOLE WT	RATION HRS 23.50 CONDI	TION: WT	HR FTG 270 S BHA HF	24HR RO 11 49 TORQL (ft-lbf	32.00 JE ON/OFF () / (ft-lbf) LAST INSP	ECTI	37	8.0 HRS	11.81 ON JARS
1 BHA #1	6 BHA W	T BE	WOB 15 / 55 BIT # LOW J b)	6 ARS	RPM 60 / 70	P/I 14 MIN ID:	GPM 401 U WT 8 (klb)	PRES 1,6	BISURE 300 HA / I 5/O \ 130 (I	P BIT HOLE WT kib)	RATION HRS 23.50 CONDI RT \ 136 (Z4 TION WT (kib)	HR FTG 270 S BHA HF	24HR RO 11 49 TORQL (ft-lbf	32.00 JE ON/OFF () / (ft-lbf) LAST INSP	ECTI	37	8.0 HRS	11.81 ON JARS
1 BHA #1	6 BHA W	T BE	WOB 5/55 BIT # LOW J b) 850.55	6 ARS	RPM 60 / 70	P/I 14 MIN ID:	GPM 401 U WT 8 (klb)	PRES 1,6	BISURE 300 HA / I 5/O \ 130 (I	P BIT HOLE WT kib)	RATION HRS 23.50 CONDIRATION 136 (Z24 TION: AVT (kib) Coller, 1-	BHA HE	24HR RO 11 49 TORQL (ft-lbf	32.00 JE ON/OFF () / (ft-lbf) LAST INSP	ECTI	37	8.0 HRS	11.81 ON JARS
1 BHA #1	6 BHA W ENGTH:	T BE (ki	WOB 5/55 BIT # LOW J b) 850.55	6 ARS	RPM 60 / 70	9// 14 MIN ID:	GPM 401 U WT 8 (klb)	PRES 1,6	BITSURE 300 SHA / 130 (1000 Grant Black	P BIT HOLE WT kib)	RATION HRS 23.50 CONDIRATION 136 (Z4 TION WT (kib)	BHA HE	24HR RO 11 49 TORQL (ft-lbf	32.00 JE ON/OFF () / (ft-lbf) LAST INSP	ECTI	37	8.0 HRS	11.81 GON JARS 3-Drill
1 BHA # 1 BHA LE	6 BHA W ENGTH:	T BE (ki	WOB 15 / 55 BIT # LOW J b) 850.55	6 ARS	RPM 80 / 70	9// 14 MIN ID: iub, 2-Di	GPM 401 U WT 8 (klb)	PRES 1,6	BITSURE 300 SHA / 130 (1000 Grant Black	P BIT HOLE WT kib) de Stabiliz	RATION HRS 23.50 CONDIRATION 136 (TION: WT (kib)	BHA HE	24HR RO 11 49 TORQL (ft-lot RS SINCE I	32.00 JE ON/OFF () / (ft-lbf) LAST INSP or, 21-Dnll	Collar	37 ION: r, 1-Dnli	HRS	11.81 ON JARS 3-Drill
BHA #1	6 BHA W ENGTH:	T BE (ki	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Collar	6 ARS	RPM 60 / 70	9// 14- MIN ID: iub, 2-Di	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BI SSURE 300 14A / I S/O \ 130 (i 00 rgrnl Blac 475.00 SPM	P BIT HOLE WT klb) de Stabiliz RAULIU JET VE	RATION HRS 23.50 CONDITATION 136 (or, 1-Orill C CS / PU L 24(PRES	TION: WT (kib) collar, 1- MPS 8.6 AV (psi)	BHA HFINTOGERAL BIA	24HR RO 11 49 TORQL (ft-lot RS SINCE I	32.00 JE ON/OFF () / (ft-lbf) LAST INSP or, 21-Dnll	Collar	37 ION: r, 1-Dnli	HRS	11.81 GON JARS 3-Drill
BHA#1	6 BHA W ENGTH: ESCRIPT	T BE (ki	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Collar	6 ARS	RPM 60 / 70	9// 14 MIN ID: iub, 2-Di	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SPM 115	HOLE WT kib) de Stabiliz RAULIU JET VE GPM 401.1	RATION HRS 23.50 CONDITATION 136 (or, 1-Oriti C CS / PU L 24(PRES. 7	TION: WT (klb) Collar, 1- MPS 8.6 AV (psi) 1,600	HR FTG 270 S BHA HF intergral Bia	24HR RO 11 49 TORQL (ft-lot RS SINCE I	32.00 JE ON/OFF () / (ft-lbf) LAST INSP or, 21-Dnll	Collar	37 ION: r, 1-Dnli	HRS	ON JARS 3-Onll
BHA#1	6 BHA W ENGTH: ESCRIPT	T BE (ki	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Cotlar	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SHA / I S/O V 130 (I	HOLE WT Kib) de Stabiliz RAULI JET VE GPM 401.1 MATE	RATION HRS 23.50 CONDITATION 136 (or, 1-Orill C CS / PU L 24(PRES	TION: WT (klb) Collar, 1- MPS 8.6 AV (psi) 1,600	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	3-Drill PRES (psi)
BHA #1	6 BHA WENGTH: ESCRIPT RATE: D-1000	T BE (kl	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Cotlar	6 ARS one Bit	RPM 60 / 70	9// 14 MIN ID: ub, 2-Di	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SHA / I S/O V 130 (I	HOLE WT kib) de Stabiliz RAULIU JET VE GPM 401.1	RATION HRS 23.50 CONDITATION 136 (or, 1-Oriti C CS / PU L 24(PRES. 7	TION: WT (klb) Collar, 1- MPS 8.6 AV (psi) 1,600	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lot RS SINCE I	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	11.81 ON JARS 3-Drill
BHA #1	6 BHA W ENGTH: ESCRIPT	T BE (kl	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Cotlar	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SHA / I S/O V 130 (I	HOLE WT kib) de Stabiliz RAULIU JET VE GPM 401.1 MATE USED	RATION HRS 23.50 CONDITATION 136 (or, 1-Oriti C CS / PU L 24(PRES. 7	Z4 TION WT (klb) Collar, 1- MPS 8.6 AV (psi) SED	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	3-Drill
BHA #1	8 6 BHA W ENGTH: ESCRIPT RATE: D-1000	T BE (kl	WOB 15 / 55 BIT # LOW J b) 850.55 1-Tri-C Cotlar	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SHA / I S/O V 130 (I	HOLE WT KIB) do Stabiliz RAULIU JET VE GPM 401.1 MATE USED 50.18	RATION HRS 23.50 CONDITED 136 (1) 136 (1) 24(1) PRES 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TION: (kib) coller, 1- MPS 8.6 AV (psi) 1,600 SED	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	3-Drill PRES (psi) USED
BHA #1 BHA DE BHA DE FLOW F # 2 CAUST DRAYA	8 6 BHA W ENGTH: ESCRIPT RATE: D-1000	T BE (kl	WOB 15 / 55 BIT # LOW J 850.55 Collar 1.17	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 SHA / I S/O V 130 (I	HOLE WT Kib) de Stabiliz GPM 401.1 MATE USED 50 LB	RATION HRS 23.50 CONDITATION 136 (or. 1-Drill C CS / PU L: 244 PRES (7	TION: ATTION: WITH (kib) Coller, 1- Coller, 1- Coller, 1- SED SHEET JS	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	3-Drill PRES (psi) USED 0 20 GAL
BHA #1 BHA DE BHA DE FLOW F # 2 CAUST DRAYA ENGINE	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/GE EERING	T BE (kl	WOB 15 / 55 BIT # LOW J 850.55 Collar 1.17	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 HA / I S/O \ 130 (I) 00 gral Blac 475.06 SPM 115 MUD	HOLE WT Kib) de Stabiliz GPM 401.1 MATE USED 0 0	RATION HRS 23.50 CONDITATION 136 (or, 1-Drill C CS / PU L 244 PRES (7 1 RIAL U PLASTIC POLYPLL SODA AS	TION: ATTION: WT (kib) Coller, 1- MPS 8.6 AV (pai) 1,600 SED SHEET JS H	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	January 11.81 ON JARS 3-Drill PRES (psi) USED 0 20 GAL 600 LB
BHA #1 BHA DE BHA DE FLOW F # 2 CAUST DRAYA ENGINE	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/GE EERING	T BE (kl	WOB 15 / 55 BIT # LOW J 850.55 Collar 1.17	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 HA / I S/O \ 130 (I) 00 gral Blac 475.06 SPM 115 MUD	HOLE WT Kib) de Stabiliz GPM 401.1 MATE USED 0 0	RATION HRS 23.50 CONDITATION 136 (or. 1-Drill C CS / PU L: 244 PRES (7	TION: ATTION: WT (kib) Coller, 1- MPS 8.6 AV (pai) 1,600 SED SHEET JS H	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	January 11.81 ON JARS 3-Drill PRES (psi) USED 0 20 GAL 600 LB
BHA #1 BHA DE BHA DE FLOW F # 2 CAUST DRAYA ENGINE	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/GE EERING	T BE (kl	WOB 15 / 55 BIT # LOW J 850.55 Collar 1.17	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BI SURE 300 130 (1 00 130 (1 00 475.09 SPM 115	HOLE WT kib) de Stabiliz GAULIU JET VE GPM 401.1 MATE USED 0 0 2,600 LB	RATION HRS 23.50 CONDITATION 136 (or, 1-Drill C CS / PU L 244 PRES (7 1 RIAL U PLASTIC POLYPLL SODA AS	TION WT (klb) coller, 1- MPS 8.6 AV (psi) .600 SED SHEET JS H	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	11.81 3-Drill PRES (psi) USED 20 GAL 600 LB 250 LB
BHA #1 BHA DE BHA DE FLOW F # 2 CAUST DRAYA	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/GE EERING	T BE (kl	WOB 15/55 BIT # LOW J b) 850.55 1-Tri-C Collar 11.17	6 ARS one Bit	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	0.00 , 1-inter	BISURE 300 HA/I S/O 130 (I 00 Grant Blac 4/5.06 SPM 115 MUD	HOLE WT kib) de Stabiliz GAULIU JET VE GPM 401.1 MATE USED 0 0 2,600 LB	RATION HRS 23.50 CONDITATION 136 (or, 1-Drill C CS / PU L 244 PRES (7 PLASTIC POLY PLL SODA AS PAC REG	TION WT (klb) coller, 1- MPS 8.6 AV (psi) .600 SED SHEET JS H	BHA HFTG BHA HFI DC: EFF % 95.0	24HR RO 11 49 TORQL (ft-lof) RS SINCE I ade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS	11.81 ON JARS 3-Drill PRES (pai) USED 0 20 GAL 600 LB 250 LB POB: 18
BHA # I BHA # I BHA DE FLOW F # 2 CAUST CAUST DRAYA ENGINE M-I GEL	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/GE EERING	T BE (kl	WOB 15/55 BIT # LOW J b) 850.55 1-Tri-C Collar 11.17	6 ARS	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	PRES 1.6 0.000 1.7 T:	BISURE 300 HA/I S/O 130 (I 00 Grant Blac 4/5.06 SPM 115 MUD	HOLE WT kib) de Stabiliz GAULIU JET VE GPM 401.1 MATE USED 0 0 2.600 LB RSONN AN HRS	RATION HRS 23.50 CONDITATION 136 (or. 1-Onill C CS / PU PRES (7 RIAL U PLASTIC POLY PLU SODA AS PAC REG NEL DA	TION WT (klb) Collar, 1- Collar,	BHA HF DC: EFF % 95.0	24HR RO 11 49 TORQL (II-lbl RS SINCE lade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS HRS FEED AND AND AND AND AND AND AND AND AND AN	11.81 3-Drill PRES (psi) USED 0 20 GAL 600 LB 250 LB POB: 18
BHA # I BHA # I BHA DE BHA DE FLOW F # 2 CAUST DRAYA ENGINE M-I GEL	BHA WENGTH: ESCRIPT RATE: D-1000 IC SOD/ GE EERING	T BE (ki	WOB 15/55 BIT # LOW J b) 850.55 1-Tri-C Collar MP	6 ARS	RPM 80 / 70	9// 14 MIN ID: ub, 2-Di 0.000 R (in) 6.000	GPM 401 U WT 8 (kib) rill Collar	PRES 1.6 0.000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.0000 0.00000 0.000000	BISURE 300 HA / I S/O 130 (I 00 Grant Black 4/5.06 SPM 115 MUD	HOLE WT kib) de Stabiliz RAULIU JET VE GPM 401.1 MATE USED 0 2.600 LB RSONN	RATION HRS 23.50 CONDITATION 136 (or, 1-Drill C CS / PU L 244 PRES (7 PLASTIC POLY PLL SODA AS PAC REG	TION WT (klb) Collar, 1- Collar,	BHA HF DC: EFF % 95.0 COMILG	24HR RO 11 49 TORQL (II-lbl RS SINCE lade Stabiliz	32.0 JE ON/OFF () / (ft-ibf) LAST INSP or, 21-Onli AV DP: R1 PRES	Collar	37 ION: r, 1-Dnli	HRS HRS LING Jar.	11.81 3-Drill PRES (psi) USED 0 20 GAL 600 LB 250 LB POB: 18





Page 2 of 2

Well Name; SWD # 5	we	SE:	API: 43-015-30510	Rpt #: _19	Date:	12/24/2001
		PERSON	NEL DATA			POB: 18
COMPANY		MAN HRS	COMPANY		#	MAN HRS
M-I MUD ENGINEER	1	2.00	J-WEST HOT SHOT		1	100
NIELSON CONSTRUCTION INC	1	2.00				
NO ACCIDENTS, SPILLS OR NEAR MISSES, S CENTRIFUDGE DOWN WAITING ON RESET S	AFETY MEETING V		DNAL COMMENTS			





CHEVRON TEXACO

		_ :															
WellNa	me: S	WD#	5					WBSE:				API: 4	3-015-3	0510	Rpt#	20 Date	12/25/200
W	ELL I	NFO			EI	EVA	TION	s				***.0.0.0.0			DAYS		
IELD: H	IUNNIN	IGTON		RKB:		908.00		-						1	OUDFS.		20.00 / 14.0
PUD D	ATE: 12	2/5/2000)							MD/TVD		5,350	(ft) / 5,040	3 (ft) 2	4 HR ROP:		11
IG: PA	TTERS	ON # 5	5							FOOTAGE	Ē.		204	4 (ft) P	ROPOSED	TD:	8,000 (
RLG S	UPRS:			NEXT	CSG: 7	.000 (in)	0,8 😰 (OO (ft)		DRILL HR	S:		1	8.00 A	FE Days •/	- Goal:	-,,
HACK E	BLANKE	NSHIP				CAS	SING			· · · · ·		Ċ	PTPC	DDI	G & CO	MD	
	ONE: 43			CSG	MD	TVC		N. LC	LNR	Ι	DH Ca				CompMO		TOTAL
	IONE: 9	03 520	0567	9.625	 	·		7 7	N	Est.		0	0		0		
NGR:	AITCHE			13.375	1	304				Est+OE		0	0		0	-1	0
JALE IV	m I CHE	LL]				''	Cum		o	o		0		o o
				1	i			İ		Daily	20	622	o		o	0 1,26	-1
URRE	NT OP	AT REF	TIME:	DRILLIN	VG @ 5	350'				1.7.7.			=1		71		71 7.22
LANNE	D OPE	RATIO	NS:		_		SIBLE	3IT TRIP									
									ETV	118888A	nv				-	~	-
ANHE	S WOR	KED 2	40.00	SAFETY	MTCS	ATTEM	DED: 1			SUMMAI T LTA RIG/		40 / 40					
· · · · · · · · · · · · · · · · · · ·						W116141	1							CN		OVT INSP?	
	NT? NO			DENT TYP	E:		SAFE	TY COM	MENTS: C	OMMUNIC	ATION	SBETW	EEN CRE	WSA	CREW MEI	MBERS	
ICIDEN	NT DES	CRIPTI	ON:														
								OPER	ATION	LSUMM	IARY						
ROM	ТО	H	RS	P/NPT	COL	E							IPTION			***************************************	
06:00	07:0	0 1	.00	PΤ	002	2 S	WITCH	LUGHT	PLANTS	S & DRILL	ERO	J 5146'	CO 5150	,			
07:00	08:0		.00	N1	03					IGHT PLA			1477 74777		TOP 000		
08:00	08:3				+									NERA	TORPRO	JBLEM	
			.50	PT	00:					155', # 2 (
08:30	10:0		.50	N1	03	C	IRCUL	ATE & C	HANGE	OUT FIL	TERS	# 2 GEN	IERATO	RTW	ICE		
10:00	16:0	0 6	.00	PT	00:	2 0	RILLF	ROM 51	55' TO 5	232', ROF	12 FI	개					
16:00	17:3	0 1	.50	N1	_ 03	C	HANG	E OUT 2	SWABS	5 # 2 PUN	IP, # 1	PUMP I	ROZE	JP			4. 4.4
17:30	18:0	0 0	.50	PT	002					239/, ROF							
18:00	19:3	0 1	.50	PT	03					FOR SET			INIT				A-100 - 100
19:30	02:0	• • • • • • • • • • • • • • • • • • • •	.50	PT	002												
02:00	· }									303', ROI	- 9	T					
	02:3		.50	PT	012					DEGREE							
02:30	06:0	0 3	.50	PT	002	2 D	RILL F	ROM 53	03' TO 5	350', ROF	13 F	2H.					
								M.U	<u>D PRO</u>	PERTIE	<u> </u>	D	AILY COS	T T	1,357	CUM COST	9,02
TIME	DEPTH	1 W.	7 VI	3 TEMP	PV/YP	GELS	WL/I	THP	SOLIDS	AND% CE	С рн	Pm/P	Chi	Ca	Oil%/OW	ES/ExL TY	PE LGS/DS
13:00	5,203	9.2	0 35	75	9/6	3/6	10	0.0/	6.0	0.25	9.50	1.2/0.5	0 200	120	7	/ WA	TER /6.5
									BI	T'S		•	1				
RUN	BIT#	SIZE	MAI	NUFACT	TYPE	IA	DO S	BERIAL #	T	JETS OR	TEA		EPTH IN	DED	TH OUT I	ODL	BGO
-	1RR	12.250		Smith	F-2		== `		ļ	16/16/16//				- OLF		10 0 5	
						∤	 -		·	10/10/10//				ļ			
-1-	2	·	+-	THERFOR	PDC		_		ļ							1 - 1 - 1 - 1	
1	6	8.750		Smith	F2H	51	17X	MJ3292	<u> </u>	15/15/15//	11111		4,768.0				
								Bij	OPE	RATION	S						
RUN	BIT#	W	3 B	RPM	4	GPM	PRE	SSURE	PBIT	HRS	24	HR FTG	24HR F	ROP (CUM HRS	CUM DEPT	H CUM RO
1	6	45	55	80 / 7	o	401	1,	620	509	18.00		204	11.3		50.00	582.0	11,64
HA#6		F	IT#6						JOLE (CONDIT			1				11,51
	BHA W			S	Р	/U WT		S/O V				<u> </u>	TOO	OUE O	WOEC	1	
									···	RTV				QUE O			RS ON JARS
		(kib)				18 (klb)		136 ((10)	139 (UD)		(13-	-Ibf) / (I	t-Ibf)		
HA LEN			0.55		MIN ID:			200							INSPECT		
HA DES	SCRIPT		fri-Cond	a Bit, 1-8it :	Sub, 2-C	inii Colla	er, 1-inte	ingral Blac	e Stabilize	or, 1-Drill Co	ollar, 1-	Intergral 6	llado Stab	elizor, 2	1-Drill Colla	r, 1-Drilling Ja	r, 3-Doll
								HYDE	PAULIC	S/PUI	MPS						
	ATE:	401.	17 HSI	Ŀ	1.980	IMPAG	CT:		JET VE		.6 AV	DC:		AVI	DP:	EC	:D
LOW R		OLUM	9	4 (64)	ER (in)	STRA	KE (in)	SPM	GPM	PRES (EFF %	SPM1/5		PRES (pai)	- pr	2 PRES (pe
LOW R		PUM	_	Lines	tre (mi)	91110											
	D-1000	PUM		CHAI	6.000		10.000	115	401.17		,620	95 (- }	2FK1 1	rico (pai)	SFM23FR	Z FRES (pe





Page 2 of 2

Well Nar	me: SWD) # 5				WBS	<u>.</u> .			API: 43-015	5-30510	Rp	t#: 20	Date:	12/25/2001
	· · · · · · · · · · · · · · · · · · ·						SURVE	Y DAT	Α						
MD	INCL	AZIMUTH	TVD	vs.	N/S CUM	E/W CU	MDOGLEG		INCL	AZIMUTH	TVD	VS	N/S CUI	ME/W	UMDOGLEG
5,258	0.250	0.000	4,951.86	196.36	196 36	0.00	0.38		<u> </u>						
						MU	D_MATE	RIAL L	JSED						<u> </u>
		DES	CRIPTION	l		Ī	USED			DESC	RIPTION				USED
CAUSTIC	SODA						100 LB	POLY PL	US					1	15 GAL
ENGINE	ERING SE	RVICE					0	LIGNITE	Broker out to the second						500 LB
M-I GEL							1,100 LB	SODA AS	SH						1,000 LB
PLASTIC	SHEETS					1 -	0	PAC REC	5						150 LB
						Ρ	ERSONI	VEL DA	TA						POB: 25
		COMPA	14			#	MAN HRS	·		COMPAN	Υ			#	MAN HRS
CHEVRO	N TEXAC	0				1	24 00	RED RO	CK PET					1	3.00
CALLAW	AY SAFE	ſΥ				1	24.00	RW JON	ES TRUC	KING CO				1	1.00
PATTERS	SON DRU	G				11	144.00	GARDINI	ERS ROU	STABOUT				2	6.00
PASON N	NUD LOG	GERS				2	24.00	SWAÇO						1	7.00
M-I MUD	ENGINEE	R				1	2.00	EL PASC	ELECTIR	RCIAN				1	10.00
NIELSON	CONSTR	RUCTION INC	:			1	2.00		TRUCKIN					2	2.00

DAILY OPERATIONAL COMMENTS

NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETING W/ RIG CREWS & SERVICE CO.

REPLACE # 1 GENERATOR





Well	Vame:	SWD	#5					٧	NBSE:		**************************************		API: 4;	3-015-30)510	Rpt#:	21	Date:	12/26/2001
V	VELL	JNF.	0		<u> </u>	EL	EVAT	IONS	S		<u> </u>	,		DEF	TH	DAYS			
	HUNN				RKB:	5.9	00.800 (f	t)							D	OL/DFS:			21 00 / 15.00
	DATE:										MD/TVD		5.625 (1			4 HR ROP			11,7
	ATTER		#55								FOOTAG					ROPOSED			1) 000,8
	SUPRS BLANK		wn		NEXT	CSG; 7.	000 (in) i	@ 8,00	0 (11)		DRILL HE	₹5.		2	3.50 A	FE Days +/	- Gnal:		
	HONE:			7			_CAS	ING_			ļ		CC	STS	DRL	G & CO	MP_		
	HONE:				CSG	MD	TVD	ТО	L LC	LNR	l	DH Cast	1 DH M	OH Car	npCasi	CompMC	H Co	nteng	TOTAL
ENGR			, 20 -00	,	9.625	3,010	3,010			N	Est.		0	0		0	0	0	
	МІТСН	ELL			13.375	304	304			N	Est+OE		o	n		o	0	o	
										i	Cum		o	O		oj	0	0	
					1	l		.l			Daily	13,9	16	. 0		이 .	0	592	14.5
	ENT OF					1G @2 56													
PI_AMN	VED OF	ERA	rions	. !	DRILL A	HEAD V	V/ POSS	IBLE B	IT TRIP								·		
							····		SAF	ETY S	MMUE	RY							
MANH	RS WO	RKE	D: 221.	00 S	AFETY	MTGS A	TTEND	ED: 1	DAYS SI	NCE LAS	T LTA RIC	OPER: 1	9 / 19	RE	C. N. I	F/A: N G	OVT IN	SP7	
NCIDE	ENT? N	0	ļ,	NCIDEN	NT TYP	E:		SAFE	TY COM	MENTS: I	MAKING C	ONNECT	IONS & F	PICKING	UP DE	RILL PIPE			
INCIDE	ENT DE	SCRI	PTION	l;												T F 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T			
							•		ODED	ATIO	I CI INA	MOV							
FROI	и т		HRS		/NPT	COD	E		VEED	ALIOI	SUM		SECON	DTION			···.		
		_											DESCRI	•					
06:00			21.0		PT	002	- t.				5596', RO		H, WOI	3 55, RF	°M70				
03:00		30	0.50		N1	009		G SEF	RVICE &	SAFET	Y MEETI	NG				,,			
03:30	06	00	2.50		PT	002	DF	RILL FI	ROM 55	96' TO 5	625', RO	P 11 FP	Н						
									MU	D PRO	PERT	ES	DA	ILY COS	T	1,390	CUM (COST	10,41
TIME	DEP.	ГН	WT	VIS	TEMP	PV/YP	GELS	WL/H			SAND% CI		Pm/Pf	Chi	Ça	Oil%/OW	ES/Ex	TYP	E LGS/DS
;			9.20	36		9/6	3/6	9.	0/	6.0	0.25	10.00	1.2/0.50	200	120	1	7	WATE	R /6.5
									-	Di	TS	-			· · · · ·	'	 	1	
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Page 2 of 2

WB	SE:	API: 43-015-30510	Rpt#:	21	Date: 1	2/26/2001
	PERSON	NEL DATA				POB: 18
	MAN HRS	COMPANY			#	MAN HRS
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NO ACCIDENTS, SPILLS OR NEAR MISSES, SAFETY MEETINGS W/ RIG CREWS & SERVICE CO





Page 1 of 2

Printed: 12/27/2001 5:56:57 PM

	<u>ame: S</u> \	WD # 5					W	BSE:				API: 43	-015-30	510	Rot #	22	Date: 1	יידכוכו	2001
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					, , , , , , , ,					5741', RC									
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01:30 02:00	02:00			PT PT	012	: St	JRVEY	@ 569		7 DEGRE									
	·	0 0.	50		+	SI DI	IRVEY	@ 569 OM 5	96', OFF	7 DEGRE 5745'									
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02:00 02:30 03:00 TIME 14:00 RUN 2 1 1 1 RUN 1 1 1 BHA#7	02:30 03:00 06:00 DEPTH 5.711 BIT # 1RR 2 8 7	0 0.9 0 0.9 0 0.9 0 3.0	50 50 50 50 50 50 50 50	PT PT PT PT 80 Solution Solution Solution PT 80 Solution Solution PT 80 Solution	902 912 902 10/10 10/10 11/10 11/10 F-2 PDC F2H ER607	GELS 6/24 SI SI SI SI SI SI SI S	JRVEY (RILL FR. JRVEY (RILL FR. 11.0 OC SE XX M. YX M. PRESS 1.65 1.60	© 565 OM 5 0 570 OM 5 ML THP V RIAL A J3292 K3185 BI URE 500 ON S/O	741' TO DO PRO SOLIDS 6.5 T OPE P BIT 508 393 HOLE WT	7 DEGRE 5745' EGREE 5785' RC OPERT SANDY C 0.50 ITS JETS OR 16/16/16 RATIOI HRS 7 50 6.50 CONDI	P 13 FPI ES EC PH 8.00 TFA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	DAII DAII Pm/Pf 0.4/0.10 DEF 4, 5,	Chi 200 200 200 200 200 200 200 200 200 20	Ca 720 DEPT 5,7	01%/OW / H OUT 11.0 2UM HRS 81.00 6.50	/ ES/Ext	WATE D L B T H 5 DEPTH 3.0	G G G G G G G G G G G G G G G G G G G	6.5 O R ROP 64 .38
02:00 02:30 03:00 TIME 14:00 RUN 2 1 1 1 1 RUN 1 1 1 8HA # 7	02:34 03:00 06:00 DEPTH 5.711 BIT # 1RR 2 6 7	0 0.9 0 0.9 0 0.9 0 3.0 WT 9.20 12.250 12.250 8.750 WO 50 / 3 40 / 3 BELOV (kib)	MANU Sn WEATH Sn Sn Sn VIS	PT PT PT PT PT SO SO SO SO SO SO SO SO SO SO SO SO SO	902 912 902 10/10 10/10 11/10 11/10 F-2 PDC F2H ER607	GELS 6/24 S1 PM 401 401	JRVEY (RILL FR. JRVEY (RILL FR. 11.0 DC SE XX M. YX M. PRESS 1.65 1.60 BH	@ 565 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM	741' TO DO PRO SOLIDS 6.5 T OPE P BIT 508 393 HOLE WT	7 DEGRE 5745' EGREE 5785' RC OPERT SANDY C 0.50 ITS JETS OR 16/16/16 RATIO HRS 7 50 6.50 CONDI	P 13 FPI ES EC PH 8.00 TFA IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	DAI DAI DAI DAI DAI DAI DAI DAI DAI DAI	Chi 200 200 200 200 200 200 200 200 200 20	720 DEPT 5,7 OP C	01%/OW / H OUT 11.0 2UM HRS 81.00 6.50	/ ES/Ext	WATE D L B T H 5 DEPTH 3.0	G G G G G G G G G G G G G G G G G G G	6.5 O R ROP 64 .38
02:00 02:30 03:00 TIME 14:00 RUN 2 1 1 1 1 RUN 1 1 1 BHA # 7	02:34 03:00 06:00 DEPTH 5.711 BIT # 1RR 2 6 7 BIT # 8 7	0 0.9 0 0.9 0 0.9 0 3.0	MANU Sn WEATH Sn Sn WEATH Sn Sn Sn Sn Sn Sn Sn Sn Sn Sn Sn Sn Sn	PT PT PT PT So So So So So So So So So So So So So	902 912 902 907 10/10 TYPE F-2 PDC F2H ER807 0 0	GELS 6/24 S1 S1 S1 S1 S1 S1 S2 S1 S1	JRVEY (RILL FR. JRVEY (RILL FR. JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 SE JRVEY (RILL FR. 11.0 JRVEY (RI	@ 565 OM 5 @ 570 OM 5 ML WHP WW RIAL A U3292 U3292 U3185 BI URE SO 135 (96', OFF 741' TO 90' = 9 D 745' TO JD_PR(SOLIDS 6.5 B T_OPE P BIT 508 393 HOLE WT	7 DEGRIE 5745' EGREE 5785' RC OPERT SANDY C 0.50 ITS JETS OR 16/16/16 15/15/15 16/16/16 RATIO HRS 7 50 6.50 CONDI	E CHAF P 13 FP ES C pH 8.00 TFA WILLIAM ILLIAN ILLIAM	H DAII Pm/P! 0.4/0.10 OEF 4. 5. R FTG 88 74	Chi 200 200 200 200 200 200 200 200 200 20	Ca 720 DEPT 5,7	011%/OW // TH OUT 11.0 UM HRS 81.00 6.50 N/OFFibf) INSPECT	/ ES/Ext / 1 O C 5 6 B CUM: 94 7.	TYPE WATE D L B T H S DEPTH 3.0 4.0	GUM 11 11 11 11 11	6.5 O R ROP 64 .38
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02:00 02:30 03:00 TIME 14:00 RUN 2 1 1 1 1 RUN 1 1 SHA # 7	02:34 03:00 06:00 DEPTH 5,711 BIT # 1RR 2 6 7 BIT # 8 7	0 0.9 0 0.9 0 0.9 0 0.9 0 3.0 WT 9.20 \$12.250 12.250 8.750 \$0.750 WO \$6.750 \$6.750 \$6.7	MANU Sn WEATH Sn Ss Ss Ss V JARS	PT PT PT PT PT 80 JFACT mith HERFOR nuth nuth 85 / 7 60 / 7	902 912 902 907 10/10 TYPE F-2 PDC F2H ER807 1 0 0 0 MIN ID: Sub, 2-D	GELS 6/24 IAE 511 9 522 GPM 401 401 U WT 5 (kib)	JRVEY (RILL FR. JRVEY (RILL FR. WITH 11.0 C SE X M. YX M. PRESS 1.65 1.60 BH 0.000 . 1-intorg	© 565 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM	741' TO 741' TO 741' TO 741' TO 745' TO 745' TO 745' TO 80LIDS 6.5 8 7 7 7 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	7 DEGRE 5745' EGREE 5785' RC 0 PERT SANDY C 0.50 TS JETS OR 15/15/15 16/16/16 RATIO HRS 7 50 6.50 CONDI RT 148 cor, 1-Drill C	P 13 FP ES C pH 8.00 TFA WINN INN 24H TIONS WT (kib) MPS 8.4 AV D	H DAII Prw/Pf 0.4/0.10 DEF 4, 5, R FTG BB 74 BHA HR tergral Bla	Chi 200 200 200 200 200 200 200 200 200 20	Ca 720 DEPT 5,7	HOUT 11.0 CUM HRS 81.00 6.50 VOFF -ibt) INSPECT	/ ES/Ext / 1 O C 5 6 B CUM: 94 7.	TYPE WATE D L B T H S DEPTH 3.0 4.0	GUM 11 11 11 11 11	6.5 O R VT PR ROP 64
02:00 02:30 03:00 TIME 14:00 RUN 1 1 1 1 SHA # 7 E BHA LEN BHA DES	02:34 03:00 06:00 DEPTH 5,711 BIT # 1RR 2 6 7 BIT # 8 7	0 0.9 0 0.9 0 0.9 0 0.9 0 3.0 1 WT 9.20 12.250 12.250 8.750 WO 50 / 3 40 / 3 81° 6 BELOV (kib) 650	MANU Sn WEATH Sn Ss Ss Ss V JARS	PT PT PT PT PT 80 JFACT mith HERFOR nuth nuth 85 / 7 60 / 7	902 912 902 903 10/10 10/	SI DI	JRVEY (RILL FR. JRVEY (RILL FR. WITH 11.0 C SE X M. YX M. PRESS 1.65 1.60 BH 0.000 . 1-intorg	© 565 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM 5 OM	96', OFF 741' TO 741' TO 745' TO 1D_PR(SOUDS 6.5 B 1 T_OPE P BIT 508 393 HOLE WT kib)	7 DEGRE 5745' EGREE 5785' RC 0 PERT SANDY C 0.50 TS JETS OR 15/15/15 16/16/16 RATIO HRS 7 50 6.50 CONDI RT 148	P 13 FP ES C pH 8.00 TFA WINN INN 24H TIONS WT (kib) MPS 8.4 AV D	H DAII Pm/P! 0.4/0.10 DEI 4, 5, R FTG BB 74 BHA HR lergral Bla	Chi 200 200 200 200 200 200 200 200 200 20	Ca 720 DEPT 5,7 5,7 AV C	HOUT 11.0 CUM HRS 81.00 6.50 VOFF -ibt) INSPECT	CUM 94 7.	DEPTH 3.0 HRS	GUM 11 11 11 11 11	ROP 64 38 RS





Page 2 of 2

Well Nar	ne; SWD	#5				WBSE	:			API: 43-015	5-30510	Rp	#: 22	Date	: 12/27/2001
							SURVE	Y_DAT	Α						
MD	INCL	AZIMUTH	TVD	vs	N/S CUM	EW CU	MDOGLEG	MD	INCL	AZIMUTH	TVD	VS	N/S CU	ME/W	CUMDOGLEC
5,700	9.000	0.000	5,392.00	231.97	231.97	0.00	1 98						!		
						MU	D MATE	RIAL L	JSED_						
		DES	CRIPTION	ı			USED			DESC	RIPTION				USED
ENGINEE	RING SE	RVICE					0	DEFOAM	X						5 GAL
M-I BAR E	BAGGED						2,600 LB	LIGNITE							300 LB
M-I GEL							1,800 LB	SODA AS	3H						1,950 LB
PLASTIC	SHEETS						0	PAC REC						1	200 LB
POLY PL	US						15 GAL								
						P	ERSON	IEL DA	TA.						POB: 17
		COMPA	YY			#	MAN HRS			COMPAN	Υ			#	MAN HRS
CHEVRO	N TEXAC	0				1	24 00	PASON	NUD LOG	GERS				2	24.00
CALLAW.	AY SAFET	ΓΥ				1	24.00	M-I MUD	ENGINEE	R				1	2.00
PATTERS	SON DRU	3				11	144.00	NIELSON	CONSTR	RUCTION INC	;			1	2.00
					DAII	Y OP	ERATIO	NAL C	OMME	NTS					
NO ACCI	DENTS, S	PILLS OR N	EAR MISS	ES, SAF											





Page 1 of 2

FIELD: H SPUD D RIG: PAI DRLG SI HACK E RIG PHO DELLPH ENGR: DALE M	ELL HUNNIN ATE: 1 TTERS UPRS: BLANKI ONE: 4	INE NGTO 2/5/2 ION A	O ON 000	RK	(B:		EVATI	ONS	SE.				API: 4	3-015-30		Rpt #	: 23	Date:	12/28/	2001
FIELD: H SPUD D RIG: PAI DRLG SI HACK E RIG PHO DELLPH ENGR: DALE M	HUNNIN PATE: 1 TTERS SUPRS: BLANKE ONE: 4	NGT0 2/5/2 SON /	OO0	RH	(B:									DEB	TU	DAVE				
SPUD D RIG: PA' DRLG SI HACK E RIG PHO DELLPH ENGR: DALE M	ATE: 1 TTERS UPRS: BLANKI ONE: 4	2/5/2 ON /	000	RH	(B:															
RIG: PA DRLG SI HACK E RIG PHO DELLPH ENGR: DALE M	TTERS UPRS: BLANK! ONE: 4:	ON A														OL/DFS:			23.00 /	17.00
DRLG SI HACK E RIG PHO CELLPH ENGR: DALE M	UPRS: BLANKI ONE: 4:		155	1							MD/TVD:		6.180	(ft) / 5,870	1		1.		LU .00 /	17 95
HACK E RIG PHO CELLPH ENGR: DALE M	BLANKI ONE: 4			i							FOOTAC	Œ.				ROPOSE			8.0	000 (ft)
RIG PHO DELLPH ENGR: DALE M	ONE: 4	ENSF		NE	EXT C	SG: 7.0	00 (in) @	8,000 (f	t)		DRILL H	₹\$:				FE Days				, , , , , , ,
CELLPH ENGR: DALE M			4IP				CASI	NC												-
ENGR: DALE M	IONE: 9	35 68	7-2197	<u> </u>	SG	MD			1 10	LAID		0110-		OSTS						
DALE M		903 5	20-0567	·			TVD	TOL	LC			DH Ca	BN DHI	MOH Con	npCas	n CompM	OH C	onteng	TO	TAL
CURRE					625	3,010	3,010			N	Est.	Ì	0	0		0	O	0		
	NITCHE	LL		13	.375	304	304			N	Est+OE		0	o		0	0	0		
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									SAE	FTV	UMM/	PV								
JANHR	S WOR	KFO	: 221.00	SAFE		ATCS AT	TENDE				T LTA RIC		24 / 24	DC/	- N 1	F/A: N (SOVTI	ucoa		
				- 1			······································										JOVIII	NSP7		
NCIDEN			_ 1	CIDENT T	APE	:	18	SAFETY	COM	MENTS: C	он доог	USEKE	EPING OF	RIGALO	CATI	ON				
NCIDEN	NT DES	CRI	TION:																	
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FROM	TC	, T	HRS	P/NP	T I	CODE				*:XILIX(I)	_3=6.3=6.6.7.6.1.		DESCR	IDTION						
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06:00	13:0	- +	7.00	PT	\longrightarrow	002								B 50, RP	M 65					
13:00	14:0	10	1.00	N6		012	SUF	RVEY @	582	2' = MISS	S FIRE, S	SAFET	Y MEETI	NG						
14:00	16:3	30	2.50	PT	[002	DRI	LL FRO	M 58	66' TO 5	897', RO	P 12 F	PH							
16:30	17:0	00	0.50	PT		012				2' = 8 DE										
17:00	02:3	-+-	9.50	PT		002					- A	0 22 5	DH WO							
	+												rn, wo	3 55, RPI	vi /5					
02:30	03:0	_	0.50	PT		002				~	DEGRE									
03:00	06:0	00	3.00	PT		002	DRI	<u>LL FRO</u>	M 61	15' TO 6	180', RO	P 21 F	PH							
									MI	D PRO	PERT	ES	D	AILY COST	Г	2.58	CUM	COST		17,248
TIME	DEPTI	н	WT V	IS TEN	AP I P	VYP	ELS	WL/HTH			AND' C				Ca	011%/00	+			S/DS1
14:15	5.874			36 80	-	9/7	4/7	10.0/			0.25			+						
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RUN	BIT#	SIZ	ZE M	ANUFAC	T	TYPE	IADC	SER	IAL#		JETS OR	TFA	0	EPTH IN	DEP	TH OUT	1 0	DL	3 G	OF
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1	2	12.2	250 WE	ATHERF	OR	PDC	1													
1	7	8.7		Smith		ER6079	527X	, Lanz.	1405		100000									
		3.7	50	SHIRI		EN00/9	32/3	, MIK.	3185	<u> </u>	16/16/16			5,711.0	l	1				
	 ,								BIT	OPE	RATIO	YS								
RUN	BIT#		MOB	F	RPM		GPM	PRESSL	IRE	P BIT	HRS		HR FTG	24HR R	OP (CUM HRS	CUM	DEPTH	CUN	M ROF
1	7	-	5 / 55	6:	5 / 75		401	1,630		393	22.00		395	17 95		28.50	+	69.0		6.46
3HA # 7			BIT#			L		 				TION		., .,			<u>, , , , , , , , , , , , , , , , , , , </u>		1 "	//
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		(k	ib)	a	_ 1	170	(ldb)	. [135 (k	ib)	150	(kib)		(ft-l	bf) / (1	ft-libf)				
HA LEN	NGTH:		850.55		N	AIN ID:		0.000					BHAH	IRS SINCE	LAST	T INSPEC	TION:			
		TION		on Bir 1-			l Coller		i Blass	a Stabiliza		٠	Interest *	lado Stabil		1.0.00		dia- 1:	2 05 -11	
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LUM U	ATE:	40	11.17 H	SI:		1.527	MPACT.	. 4	17.38	JET VE	L: 21	8.4 AV	DC:		AV	DP:		ECD		
LOW R		PL	JMP	t	LINEF	R (in) 8	TROKE	(In) S	PM	GPM	PRES	(psl)	EFF %	SPM1/S	PR1	PRES (ps) SPM	2/SPR2	PRES	3 (psi)
#	D-1000					6.000	_	000	115	401.17		1,630	95.0	-	7	()		,		
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# 2 E	8.00	хо .			<u>-</u>	254 43	254.4.		UD	JSED	RIAL U			DESCRIP	TION					SED 0

Printed: 12/28/2001 6:43:58 AM



Page 2 of 2

Well Name: SWD # 5	WB	SE:	API: 43-015-30510	Rpt #:	23	Date:	12/28/2001
	N	IUD MATE	RIAL USED				
DESCRIPTION		USED	DESCRIPTION				USED
M-I GEL		2,800 LB	DESCO CF			1	375 LB
PLASTIC SHEETS		0	SODA ASH				2,450 LB
POLY PLUS		5 GAL	PAC REG				200 LB
LIGNITE		300 LB					
		PERSON	NEL DATA				POB: 18
COMPANY	#	MAN HRS	COMPANY		\top	#	MAN HRS
CHEVRON TEXACO	1	24.00	M-I MUD ENGINEER			1	2.00
CALLAWAY SAFETY	1	24.00	NIELSON CONSTRUCTION INC			1	2.00
PATTERSON DRLG	11	144.00	GARDINER CONSTRUCTION		1	1	1 00
PASON MUD LOGGERS	2	24.00					1
	DAILY (PERATIC	NAL COMMENTS				
NO ACCIDENTS, SPILLS OR NEAR MISSES,							
TOPPED NAVAJO FORMATION @ 5997", 500"	HIGHER THAN PRO	OGNOSIS					
		Com	ments				
NEW TD 7425'					*********		



	ime: SV	VD #5					WBSE:				API: 43	-015-30	510	Rot	# 24	Date	12/29/2001
W	ELL I				FI	EVAT			i					DAYS		o care.	
FIELD. H				RKB:		908.00 (fi			i .			ULI		OL/DFS:			24 00 / 18.00
SPUD D	ATE: 12	/5/2000					•		MD/TVD.		6.435 (f	1) / 6,124			р.		24.29
RIG: PA	TTERS	ON # 5 9							FOOTAGE		-, ,			ROPOSE			8.000 (ft)
DRLG S	UPRS:			NEXT	CSG: 7	.000 (in)	@ 8,000 (ft)		DRILL HRS					FE Days			0,000 ()
HACK E	BLANKE	NSHIP		———										<u>-</u>			
RIG PHO	ONE: 43	5 687-2	197	CSG	MD	CAS		a Ting	· · · · · · · · · · · · · · · · · · ·	V . C		STS					
CELLPH	ONE: 9	03 520-0	567		+	TVD	1 100	O LNR	ļ <u>ļ</u>	H Casi		OH Con	npcasn	Compiv		inteng	TOTAL
ENGR:				9.625				N	Est.		0	0	(0	0	0	
DALE	IITCHE	-L		13.375	304	304	1	N	Est+OE		0	0		0	0	o	
				1			1 i		Cum	tet ne	0	0		0	0	0	
CURRE	UT OR /	T DED		1	10.00	4051	i	l	Daily	26,8	BO	0		이	. 0	1,888	28,76
CURREI PLANNE					NG @ 64	435.											
-CANAIAE	D OFE	ATION	3:	DRILL, A	AHEAU												
									SUMMAR								
MANHR	SWOR	KED: 22	7.00	SAFETY	MTGS	ATTEND	ED: 1 DAYS	SINCE LAS	T LTA RIG/C	PER: 2	22 / 22	REC	C:N F	/A: N	GOVT IN	ISP?	
NCIDEN	NT? NO		INCID	ENT TYP	E:		SAFETY COM	MENTS: I	JSE CAUTIC	N WHE	EN USING	STEAM	FOR 1	THAWIN	G FROZ	EN LINE	S
NCIDEN	IT DES	CRIPTIC	N:														
							OPE	PATIO	I CLIBARA	ADV							
FROM	то	HF	90	P/NPT	COL	SE I	OPE	CALLO	LSUMM		SECON	27/01					
											DESCRI	_					
06:00	08:3			PT	002		RILL FROM 6	180' TO 6	278', ROP	39 FP	H, WOB	55, RP	M 70				
08:30	10:0	0 1.	50	N1	03	1 W	ORK ON MU	JD PUMP	S, #1, POP	OFF \	VALVE 8	. #2, SU	CTIO	N VALV	ES		
10:00	11:0	0 1.0	00	PT	002	2 DF	RILL FROM 6	278' TO (313', ROP	35 FP	Н						
11:00	11:3	0 0.	50	N1	03	1 CH	ECK PUMP	S. AIREC) UP								
11:30	14:30	0 3.0	20	PT	002		RILL FROM 6			23 EP	H ROP	nenee	ED TO) A EDH			
14:30	20:3			PT	005												
		-					X & PUMP S		OP TOTCE	aio	OH W/I	311 # 7.	SURV	EY 4 DI	EGKEE		
20:30	22:0			PT	006		1 W/ BIT # 8										
22:00	22:3	0 0.	:	N1	031		LILICT DOAD										
			~		03	I AL	JUST DRAY	VWORKS	BRAKE					************************			
22:30	00:3	0 2.0		PT	006		VISH TIH TO	~	BRAKE					/// *** *** *** *			
22:30 00:30	00:3		00		- 	3 FIN		6311'		MIX & I	PUMP H	I-VIS SI	WEEP				
		0 1.	50	PT	006	FIN	NISH TIH TO ASH & REAM	6311' A F/6311'	TO 6380', M								
00:30	02:0	0 1.	50	PT PT	000	FIN	NISH TIH TO ASH & REAM RILL FROM 6	6311' A F/6311' 382' TO 6	TO 6380', M 6435, ROP	13 FPI	I, WOB	40, RPI	4 60		4 CUM	COST	19 082
00:30 02:00	02:00 06:00	0 1.: 0 4.:	50	PT PT PT	006 029 002	3 FIN 9 W/ 2 DF	VISH TIH TO ASH & REAM RILL FROM 6	6311' 4 F/6311' 382' TO 6	TO 6380', M 6435, ROP PERTIE	13 FPI	I, WOB	40, RPN LY COS	и 60 Т	2,71	4 CUM		19,962
00:30 02:00 TIME	02:00 06:00 DEPTH	0 1.5 0 4.6	00 50 00 VIS	PT PT PT	000 029 002	3 FIN 9 W/ 2 DF	NISH TIH TO ASH & REAM RILL FROM 6 MUHTHP	6311' A F/6311' 382' TO 6 JD PR(SOLIDS	TO 6380', N 6435, ROP PERTIE BAND% CEC	13 FPI S pH	DA	40, RPN LY COS	/ 60 T Ca	2,71	4 CUM W ES/Ex	L TYP	E LGS/DS
00:30 02:00	02:00 06:00	0 1.: 0 4.:	00 50 00 VIS	PT PT PT	006 029 002	3 FIN 9 W/ 2 DF	VISH TIH TO ASH & REAM RILL FROM 6	6311' A F/6311' 382' TO 6 JD PRO SOUDS 6.0	TO 6380', M 6435, ROP DPERTIE BAND% CEC 1.25	13 FPI S pH	I, WOB	40, RPN LY COS	и 60 Т	2,71			E LGS/DS
00:30 02:00 TIME 13:00	02:00 06:00 DEPTH 6,385	0 1.8 0 4.0 1 WT 9.20	00 50 00 VIS 35	PT PT PT TEMP	006 029 002 PV/YP 10/6	3 F18 9 W/ 2 DF GELS 3/8	NISH TIH TO ASH & REAM RILL FROM 6 MU WUHTHP 9.6/	6311' 4 F/6311' 382' TO 6 JD PRC SOLIDS 6.0	TO 6380', N 6435, ROP PERTIE BAND% CEC	13 FPI S pH	DA	40, RPN LY COS	/ 60 T Ca	2,71		L TYP	E LGS/DS
00:30 02:00 TIME 13:00	02:00 06:00 DEPTH	0 1.5 0 4.6	00 50 00 VIS 35	PT PT PT	000 029 002	3 F18 9 W/ 2 DF GELS 3/8	NISH TIH TO ASH & REAM RILL FROM 6 MU WUHTHP 9.6/	6311' 4 F/6311' 382' TO 6 JD PRC SOLIDS 6.0	TO 6380', M 6435, ROP DPERTIE BAND% CEC 1.25	13 FPI S pH 10.00	DA Prn/Pf	40, RPN LY COS	M 60 T Ca 160	2,71	W ES/Ex	WATE	E LGS/DS
00:30 02:00 TIME 13:00	02:00 06:00 DEPTH 6,385	0 1.8 0 4.0 1 WT 9.20	00 00 00 00 00 00 00 00	PT PT PT TEMP	006 029 002 PV/YP 10/6	3 F18 9 W/ 2 DF GELS 3/8	NISH TIH TO ASH & REAM RILL FROM 6 MU WUHTHP 9.6/	6311' 4 F/6311' 382' TO 6 JD PRC SOLIDS 6.0	TO 6380', M 6435, ROP DPERTIE BAND% CEC 1.25	13 FPI S pH 10.00	DA Prn/Pf	40, RPN LY COS Chl 200	M 60 T Ca 160	2,71 Oil%/O	W ES/Ex	WATE	E LGS/DS1
00:30 02:00 TIME 13:00	02:00 06:00 DEPTH 6,385	0 1.0 0 4.0 9.20 SIZE 12.250	00 50 00 00 00 00 00 00	PT PT PT TEMP 80	006 029 002 PV/YP 10/6	3 FIN 9 W/ 2 DF GELS 3/8	NISH TIH TO ASH & REAM RILL FROM 6 MU WUHTHP 9.6/	6311' 4 F/6311' 382' TO 6 JD PRC SOLIDS 6.0	TO 6380', M 6435, ROP PERTIE BAND' GEO 125 TS JETS OR T	13 FPI S pH 10.00	DA Prn/Pf	40, RPN LY COS Chl 200	M 60 T Ca 160	2,71 Oil%/O	W ES/Ex	WATE	E LGS/DS1
00:30 02:00 TIME 13:00 RUN 2 1	02:00 06:00 DEPTH 6,385 BiT #	0 1.: 0 4.: 1 WT 9.20 SIZE 12.250	00 VIS 35 MAN SI WEATI	PT PT PT S0 VFACT mith HERFOR	006 029 002 PV/YP 10/6 TYPE F-2 PDC	GELS 3/8	NISH TIH TO ASH & REAM RILL FROM 6 MU WL/HTHP 9.6/	6311' A F/6311' 382' TO 6 JD PRC SOLIDS 6.0 BI	TO 6380', N 6435, ROP PERTIE BANDW CEC 1 25 TS JETS OR T	13 FPI S : pH 10.00	DA Pm/Pf 1.2/0.40	40, RPM LY COS Chi 200 PTH IN	Ca 160	2,71 0il%/01 /	W ES/Ex	WATE	E LGS/DS1 ER /6.5
00:30 02:00 TIME 13:00 RUN 2 1	02:00 06:00 DEPTH 6,385 BiT # 1 1RR 2	0 1.0 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750	00 VIS 35 MANI SI WEATI	PT PT PT SO SO WFACT mith HERFOR	006 029 002 10/6 10/6 TYPE F-2 PDC	3 FIN 3 W/2 DR GELS 3/8 IAD	NISH TIH TO ASH & REAM RILL FROM 6 MU WL/HTHP 9.6/ C SERIAL X MK3185	6311' A F/6311' 382' TO 6 JD PRC SOLIDS 6.0 BI	TO 6380', N 6435, ROP PERTIE BAND', CEC 1 25 TS JETS OR T 18/16/16////	13 FPH S pH 10.00	DA Pm/Pf 1 2/0.40	40, RPM LY COS Chi 200 PTH IN	Ca 160	2,71 Oil%/O	W ES/Ex	WATE	E LGS/DS1
00:30 02:00 TIME 13:00 RUN 2 1	02:00 06:00 DEPTH 6,385 BiT # 1RR 2	0 1.: 0 4.: 1 WT 9.20 SIZE 12.250	00 VIS 35 MANI SI WEATI	PT PT PT S0 VFACT mith HERFOR	006 029 002 PV/YP 10/6 TYPE F-2 PDC	3 FIN 3 W/2 DR GELS 3/8 IAD	WISH TIH TO ASH & REAM RILL FROM 6 WUHTHP 9.6/ C SERIAL X MK3185 X MK3187	6311' 4 F/6311' 382' TO 6 JD PRC SOLIDS 6.0 BL	TO 6380', N 9435, ROP PERTIE BANDY CEC 1 25 TS JETS OR T 18/16/16//// 16/16/16///	13 FPI S : pH 10.00	DA Pm/Pf 1 2/0.40	40, RPM LY COS Chi 200 PTH IN	Ca 160	2,71 0il%/01 /	W ES/Ex	WATE	E LGS/DS1 ER /6.5
00:30 02:00 TIME 13:00 RUN 2 1 1	02:00 06:00 DEPTH 6,385 BIT # 1 1RR 2 7 8	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750	OO OO OO OO OO OO OO OO OO OO OO OO OO	PT PT PT S0 WFACT mith HERFOR mith	000 029 002 PV/YP 10/6 TYPE F-2 PDC ER607	3 FIN 9 W/ 2 DF GELS 3/8 E IAD 79 527 9 527	WISH TIH TO ASH & REAM RILL FROM 6 WUHTHP 9.6/ C SERIAL X MK3185 X MK3187	6311' 4 F/6311' 382' TO 6 SOLIDS 6.0 BI	TO 6380', N 6435, ROP PERTIE BAND', CEC 1 25 TS JETS OR T 18/16/16////	13 FPH S: pH 10.00	DA PrwPf 1.2/0.40	40, RPM LY COS Chi 200 PTH IN 711.0 382.0	0 60 T Ca 160 DEPT	2,71 Oil%/O' /	1 O 7 8 E	TYPI WATE	E LGS/OS9 R /6.5 B G O R 4 4 BT PF
00:30 02:00 TIME 13:00 RUN 2 1 1	02:00 06:00 DEPTH 6,385 BiT # 1 1RR 2	0 1.0 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750	OO OO OO OO OO OO OO OO OO OO OO OO OO	PT PT PT SO SO WFACT mith HERFOR	000 029 002 PV/YP 10/6 TYPE F-2 PDC ER607	3 FIN 3 W/2 DR GELS 3/8 IAD	WISH TIH TO ASH & REAM RILL FROM 6 WUHTHP 9.6/ C SERIAL X MK3185 X MK3187	6311' 4 F/6311' 382' TO 6 SOLIDS 6.0 BI	TO 6380', N 9435, ROP PERTIE BANDY CEC 1 25 TS JETS OR T 18/16/16//// 16/16/16///	13 FPH S: pH 10.00	DA Pm/Pf 1 2/0.40	40, RPM LY COS Chi 200 PTH IN 711.0 382.0	0 60 T Ca 160 DEPT	2,71 Oil%/O' /	1 O 7 8 E	TYPI WATE	E LGS/DS1 ER /6.5
00:30 02:00 TIME 13:00 RUN 2 1 1	02:00 06:00 DEPTH 6,385 BIT # 1 1RR 2 7 8	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750	OO VIS 35 MANI SI WEATI SI SI	PT PT PT S0 WFACT mith HERFOR mith	900 902 900 10/6 10/6 17/PE F-2 PDC ER607	3 FIN 9 W/ 2 DF GELS 3/8 E IAD 79 527 9 527	WISH TIH TO ASH & REAM RILL FROM 6 WUHTHP 9.6/ C SERIAL X MK3185 X MK3187	6311' 4 F/6311' 382' TO 6 SOLIDS 6.0 BI	TO 6380', N 9435, ROP PERTIE BANDY CEC 1 25 TS JETS OR T 18/16/16//// 16/16/16////	13 FPH S: pH 10.00	DA PrwPf 1.2/0.40	40, RPM LY COS Chi 200 PTH IN 711.0 382.0	0 60 T Ca 160 DEPT	2,71 Oil%/O' /	1 0 7 8 E	TYPI WATE	E LGS/OS9 R /6.5 B G O R 4 4 BT PF
00:30 02:00 TIME 13:00 RUN 2 1 1 1 1	02:00 06:00 DEPTH 6:385 BiT # 1RR 2 7 8	0 1.3 0 4.0 9.20 SIZE 12.250 12.250 8.750 WC	00 50 50 50 50 50 50 50	PT PT PT PT VEMP 80 UFACT mith HERFOR mith RPM	900 902 900 10/6 10/6 17/PE F-2 PDC ER607	3 File 3 W, 2 DR GELS 3/8 IAD 79 527 GPM	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187	6311' A F/6311' 382' TO 6 SOLIDS 6.0 BI # T OPE P BIT	TO 6380', N 435, ROP DERTIE BAND' CEC 1 25 TS JETS OR T 16/16/16/// 16/16/16/// RATION:	13 FPH S: pH 10.00	DA Pm/Pf 1.2/0.40	40, RPM LY COS Chi 200 PTH IN 711.0 382.0	0 60 T Ca 160 DEPT	2,71 Oil%/Oi / / Oil%/Oil / Oil%/Oil Oil%/Oil Oil%/Oil Oil%/Oil Oil%/Oil Oil%/Oil Oil%/Oil Oil E	D L E	E LGS/DS1 ER /6.5 B G O R 4 4 BT PF CUM ROF 19.17	
00:30 02:00 TIME 13:00 RUN 2 1 1 1 1	02:00 06:00 DEPTH 6,385 BIT # 1RR 2 7 8	0 1.0 4.0 WT 9.20 SIZE 12.250 8.750 WC 50 / /	VIS 35 MANI SI SI SI SI	PT PT PT PT VEMP 80 UFACT mith HERFOR mith RPM 65 / 7	900 902 900 10/6 10/6 17/PE F-2 PDC ER607	3 File 3 W, 2 DR 2 DR 3/8 ST 1AD 1 ST 1	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187 B PRESSURE 1,670	6311' 4 F/6311' 382' TO 6 SOLIDS 6.0 BI # T OPE P BIT 393	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 T.S JETS OR T 18/16/16//// 18/16/16//// RATION: HRS 6.50	13 FPH S PH 10.00	DA DA DE DE DE DE DE DE DE DE DE DE DE DE DE	40, RPM LY COS Chi 200 PTH IN 711.0 382.0	0 60 T Ca 160 DEPT	2,71 Oil%/Oil / / / / / / / / / / /	7 8 E	TYPI WATE D L E	E LGS/DS9 ER /6.5 B G O R 4 4 BT PF
00:30 02:00 TIME 13:00 13:00 14	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8	0 1.: 0 4.0 9.20 SIZE 12.250 12.250 8.750 WC	00	PT PT PT PT VEMP 80 UFACT mith HERFOR mith RPM 65 / 7	906 929 907 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	3 Fin 3 W, 2 DR GELS 3/8 IAD 79 527 GPM 401 401	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.670 BHA	# T OPE P BIT 393	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 IS JETS OR T 16/16/16/1/ 16/16/16/1/ RATION: HRS 6.50	13 FPH S : pH 10.00 FA :::: ::: ::: ::: ::: ::: ::: ::: :::	DA DA DE DE DE DE DE DE DE DE DE DE DE DE DE	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R	M 60 T Ca 160 DEPT 6,3	2,71 0il%/O' / / / / / / / / / /	7 8 E	DEPTH	E LGS/DS1 ER /6.5 B G O R 4 4 BT PF CUM ROP 19.17 26.50
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00:30 02:00 TIME 13:00 RUN 2 1 1 1 1 1 1 HA # 8	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750 WC 50 / / BI F BELOV (kib)	VIS OO VIS OO VIS SI MANI SI WEATI SI SI VJARS	PT PT PT PT VEMP 80 UFACT mith HERFOR mith RPM 65 / 7	906 929 907 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	3 File 3 W, 2 DR GELS 3/8 E IAD 79 527 79 527 GPM 401 401 7U WT 35 (kib)	WUHTHP 9.8/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.670 5/0 135	# T OPE P BIT 393	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 IS JETS OR T 16/16/16/1/ 16/16/16/1/ RATION: HRS 6.50	13 FPH S: pH 10.00	DA DA DE DE DE DE DE DE DE DE DE DE DE DE DE	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.00	M 60 T Ca 160 DEPT 6,3	2,71 0il%/O / / / / / / / / / /	7 8 E	DEPTH	E LGS/DS1 ER /6.5 B G O R 4 4 BT PF CUM ROP 19.17 26.50
00:30 02:00 TIME 13:00 13:00 13:00 14:	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8 BHA WI	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 8.750 WC 50 / (kib) 850	00	PT PT PT PT VEMP 80 UFACT mith HERFOR mith mith RPM 65/1	906 929 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	GELS 3/8 LAD 279 527 GPM 401 401 7/U WT 35 (kib)	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.870 BHA / S/O 0.0000	# HOLE WT (kib)	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 I.S. JETS OR T 18/16/16//// 18/16/16//// RATION: HRS 6.50 CONDIT RT W 155 (ki	13 FPH S S PH 10.00 FA IIII S C 24H T T D D D D D D D D D D D D D D D D D	1, WOB DA Pm/Pf 1 2/0.40 DE 5 8 R FTG 202 53	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.06	M 60 T Ca 160 DEPT 8,3	2,71 0il%/O' / /	W ES/Ex / I O 7 8 E 6 1	DEPTH	E LGS/DS* ER /6.5 B G O R 4 4 BT PI CUM ROP 19.17 26.50 S ON JARS
00:30 02:00 TIME 13:00 RUN 2 1 1 1 1 1 HA # 8	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8 BHA WI	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 8.750 WC 50 / (kib) 850	00	PT PT PT PT VEMP 80 UFACT mith HERFOR mith mith RPM 65/1	906 929 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	GELS 3/8 LAD 279 527 GPM 401 401 7/U WT 35 (kib)	WUHTHP 9.8/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.670 5/0 135	# HOLE WT (kib)	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 I.S. JETS OR T 18/16/16//// 18/16/16//// RATION: HRS 6.50 CONDIT RT W 155 (ki	13 FPH S S PH 10.00 FA IIII S C 24H T T D D D D D D D D D D D D D D D D D	1, WOB DA Pm/Pf 1 2/0.40 DE 5 8 R FTG 202 53	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.06	M 60 T Ca 160 DEPT 8,3	2,71 0il%/O' / /	W ES/Ex / I O 7 8 E 6 1	DEPTH	E LGS/DS' FR /6.5 B G O F 4 4 BT P CUM ROF 19.17 26.50 S ON JARS
00:30 02:00 TIME 13:00 RUN 2 1 1 1 1 1 HA # 8	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8 BHA WI	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 8.750 WC 50 / (kib) 850	VIS 35 WEATI SI SI VIARS	PT PT PT PT VEMP 80 UFACT mith HERFOR mith mith RPM 65/1	906 929 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	GELS 3/8 LAD 279 527 GPM 401 401 7/U WT 35 (kib)	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.870 BHA / S/O 0.0000	# HOLE WT (kib)	TO 6380', N 435, ROP PERTIE BAND' CEC 1 25 I.S. JETS OR T 18/16/16//// 18/16/16//// RATION: HRS 6.50 CONDIT RT W 155 (ki	13 FPH S S PH 10.00 FA IIII S C 24H T T D D D D D D D D D D D D D D D D D	1, WOB DA Pm/Pf 1 2/0.40 DE 5 8 R FTG 202 53	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.06	M 60 T Ca 160 DEPT 8,3	2,71 0il%/O' / /	W ES/Ex / I O 7 8 E 6 1	DEPTH	E LGS/DS' FR /6.5 B G O F 4 4 BT P CUM ROF 19.17 26.50 S ON JARS
00:30 02:00 TIME 13:00 13:00 13:00 14:	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8 BHA WI	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750 WC 50 / / Bill F BELOV (kib) 850	VIS 35 WEATI SI SI VIARS	PT PT PT PT VEMP 80 UFACT mith HERFOR mith mith RPM 65/1	906 929 10/6 10/6 10/6 10/6 10/6 10/6 10/6 10/6	GELS 3/8 LAD 279 527 GPM 401 401 7/U WT 35 (kib)	WUHTHP 9.8/ C SERIAL X MK3187 X MK3187 PRESSURE 1.670 1.670 5/0 0.000 1-Intergral Bis	# T OPE P BIT 393 HOLE WY (kib)	TO 6380', N 435, ROP PERTIE SANDY CEC 1 25 IS JETS OR T 16/16/16/1// 16/16/16/16/16/16/16/16/16/16/16/16/16/1	13 FPI S S PH 10.00 FA IIII IIII IIII IIII IIII IIII IIII	1, WOB DA Pm/Pf 1 2/0.40 DE 5 8 R FTG 202 53	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.06	M 60 T Ca 160 DEPT 8,3	2,71 0il%/O' / /	W ES/Ex / I O 7 8 E 6 1	DEPTH	E LGS/DS* ER /6.5 B G O R 4 4 BT PI CUM ROP 19.17 26.50 S ON JARS
00:30 02:00 TIME 13:00 13:00 14:00 14:00 15	02:00 06:00 DEPTH 6.385 BIT # 1RR 2 7 8 BIT # 7 8 BHA WI	0 1.: 0 4.0 1 WT 9.20 SIZE 12.250 12.250 8.750 WC 50 / / Bill F BELOV (kib) 850	VIS 35 WEATI SI SI V JARS	PT PT PT PT VEMP 80 UFACT mith HERFOR mith mith RPM 65/1	PV/YP 10/6 TYPE F-2 PDC ER607 ER607 M 75 P 16 MIN ID: Sub, 2-C	3 File 3 W, 2 DR GELS 3/8 IAD FILAD GELS 3/8 IAD GPM 401 401 /U WT 35 (kib)	WUHTHP 9.6/ C SERIAL X MK3185 X MK3187 B PRESSURE 1.670 1.670 5.00 1.35 0.000 .1-intergral Bid	# HOLE wt (kib) RAULI R	TO 6380', N 435, ROP PERTIE SANDY CEC 1 25 IS JETS OR T 16/16/16/1/ 16/16/16/1/ RATION: HRS 6.50 CONDIT RT W 155 (ki	13 FPI S S PH 10.00 FA IIII IIII IIII IIII IIII IIII IIII	DA Pru/Pf 1.2/0.40 Pru/Pf 1.2/0.40 DE 5 6 R FTG 202 53 BHA HF	40, RPM LY COS Chi 200 PTH IN 711.0 382.0 24HR R 31.06	M 60 T Ca 160 DEPT 6.3 COP C C C C C C C C C C C C C C C C C C C	2,71 0il%/O' / /	W ES/Ex / I O 7 8 E 6 1	DEPTH 71.0 DEPTH RS	E LGS/DS ¹ ER /6.5 B G O R 4 4 BT PF CUM ROP 19.17 26.50 S ON JARS
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Page 2 of 2

Well Nan	ne: SWC	# 5				WBSE				API: 43-015	5-30510	Rp	1#: 24	Date:	12/29/2001
							SURVE	Y DAT	Ą						
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		DES	CRIPTION)			USED			DESC	RIPTION	1			USED
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M-I GEL							5,100 LB	SAWDUS	ST.						150 LD
PLASTIC	SHEETS				,		0	DESCO	CF .						100 LB
POLY PL	JS						35 GAL	SODA AS	SH						500 LB
DEFOAM	X					1	15 GAL	PAC REC	3						250 LB
						PE	ERSON	VEL DA	TA	***************************************					POB: 20
		COMPAN	17				MAN HRS			COMPAN	Y			#	MAN HRS
CHEVRO	N TEXAC	0				1	24.00	M-I MUD	ENGINEE	ER .				1	2.00
CALLAWA	AY SAFET	Y				1	24.00	NIELSON	CONST	RUCTION INC	:			1	2.00
PATTERS	ON DRL	3				11	144 00	RED RO	CK PET					1	3.00
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					DAI	YOP	ERATIC	NAI C	OMME	NTS			· · · · · · · · · · · · · · · · · · ·		***************************************

Printed: 12/29/2001 6:19:11 AM



	Vame:	SWI)#5					\	<u>VBŞE:</u> (DD01C	TA3VF.CA	AP DRILL	API: 4	3-015-30	510	Rpt#:	25 Date	12/30/200
	NELI	LIN	FO			EI	EVA							•		DAYS		. 2. 00/200
	: HUNI	VING	TON		RKB:		908.00 (1					OL/DFS:		25.00 / 19.0
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DRLG	SUPR	S:			NEXT	CSG: 7	.000 (in)	@ 8,00	O (ft)		DRILL H					FE Days +/		0.000 (1
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		. 1		<u> </u>				,			RATIO	YS						
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LA/	ame: 5v	VD#	5				W	3SE: 00	01CT/	A3VF CA	P DRILL	API: 43-	015-30510) Řpti	#: 26	Date: 1	2/31/200
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SHA#8 SHA LEF SHA DE	BHA WI NGTH: SCRIPT	(kit (kit (ion:1	BIT# OW JAR) 50.55 -Tri-Cond collar	e Bit, 1-Bit :	0 MIN ID: Sub, 2-Di	(klb) rill Collar	0,000 ; 1-Intergr	S/O WT 0 (klb) al Blado S YDRA 417 38 J	Stabilize JULIC ET VEI	RT 0 (I	WT kib) Collar, 1-Ini IMPS 8.4 AV D	c:	(ft-lbf) S SINCE Le do Stabilizon	/ (ff-lbf) AST INSPEC ; 21-Drill Col	llar, 1-Drilli	ing Jar.	
SHA#8	BHA WT	F BEL (kit E TON:1	BIT# OW JAR) 50.55 -Tri-Cond collar	e Bit, 1-Bit :	0 MIN ID: Sub, 2-Di 1.527 ER (in)	(kib) rill Collar IMPAC	0.000 ; 1-intergi	S/O WT 0 (klb) al Blade S YDRA 417 38 J	Stabilize ULIC ET VEI GPM	RT 0 (I	WT kib) Collar, 1-ini IMPS 8.4 AV D (pai) E	C:	(ft-lbf) S SINCE LA de Stabilizer	/ (ff-lbf) AST INSPEC ; 21-Drill Col	llar, 1-Drilli	ing Jar.	3-Dall
SHA#8	BHA WI NGTH: SCRIPT	(kit (kit (ion:1	BIT# OW JAR) 50.55 -Tri-Cond collar	e Bit, 1-Bit :	0 MIN ID: Sub, 2-Di	(kib) rill Collar IMPAC	0,000 ; 1-Intergr	S/O WT 0 (klb) al Blado S YDRA 417 38 J	Stabilize JULIC ET VEI	RT 0 (I	WT kib) Collar, 1-Ini IMPS 8.4 AV D	c:	(ft-lbf) S SINCE Le do Stabilizon	/ (ff-lbf) AST INSPEC ; 21-Drill Col	llar, 1-Drilli	ing Jar.	3-Dall
HA #8	BHA WT	(kit (kit (ion:1	BIT# OW JAR) 50.55 -Tri-Cond collar	e Bit, 1-Bit :	0 MIN ID: Sub, 2-Di 1.527 ER (in)	(kib) rill Collar IMPAC	0.000 ; 1-intergi	S/O WT 0 (klb) al Blade S YDRA 417 38 J SPM 115	Stabilize ULIC ET VEI GPM 401.17	RT 0 (I	IMPS (pai) E 1,650	C:	(ft-lbf) S SINCE Le do Stabilizon	/ (ff-lbf) AST INSPEC ; 21-Drill Col	llar, 1-Drilli	ing Jar.	3-Dall
HA#8 HA LETHA DE	BHA WI NGTH: SCRIPT NATE:	F BELL (kith	BIT # OW JAR b) 50.55 -Tri-Concollar	o Bit, 1-Bit :	0 MIN ID: Sub, 2-D: 1.527 ER (in) 6.000	(klb) iiii Collar iiii/PAC STROK	0.000 ; 1-intergi	S/O WT 0 (kib) al Blade 5 YDRA 417 38 J SPM 115 SU	Stabilize ULIC ET VEI GPM 401.17	RT 0 (I	Collar, 1-Int IMPS 8.4 AV D (pai) E	C: 95.0	(ft-lbf) S SINCE Le do Stabilizor A SPM1/SPR	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD	3-Dnlt PRES (pr
HA #8 HA LEF HA DE LOW R # 2 E	BHA WINGTH: SCRIPT MATE: D-1000	(kither) (ki	BIT # OW JAR)) 50.55 -Tri-Concoller I.17 HSI	Bit, 1-Bit :	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7, 1-intergri T: EE (in) 1: 0.0000	S/O WT 0 (klb) al Blade S 417 38 J 3PM 115 SU CUMDOO	Stabilize ULIC ET VEI GPM 401.17	RT 0 (I	IMPS (pai) Editor, 1-ini Editor, 1-ini Editor, 1-ini Editor, 1-ini Editor, 1-ini Editor, 1-ini Editor, 1-ini Editor, 1-ini	C:	(ft-lbf) S SINCE Le do Stabilizor A SPM1/SPR	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	llar, 1-Drilli	ECD	3-Dnlt PRES (pr
HA #8 HA LEF HA DE LOW R # 2 E	BHA WI NGTH: SCRIPT NATE:	(kither) (ki	BIT # OW JAR b) 50.55 -Tri-Concollar	o Bit, 1-Bit :	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7, 1-intergri T: EE (in) 1: 0.0000	S/O WT 0 (klb) al Blade S 417 38 J 3PM 115 SU CUMDOO	Stabilize ULIC ET VEI GPM 401.17	RT 0 (I	Collar, 1-Int IMPS 8.4 AV D (pai) E	C: 95.0	(ft-lbf) S SINCE Le do Stabilizor A SPM1/SPR	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD	3-Dnlt PRES (pr
HA LEF HA DE LOW R	BHA WINGTH: SCRIPT MATE: D-1000	(kither) (ki	BIT # OW JAR)) 50.55 -Tri-Concoller I.17 HSI	Bit, 1-Bit :	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7, 1-intergri T: EE (in) 1: 0.0000	S/O WT 0 (klb) al Blade 5 417 38 J SPM 115 SU CUMDOC 00 0	ULIC ET VEI GPM 401.17 RVE GLEG	RT 0 (I	MPS	C: 95.0	(ft-lbf) S SINCE Le do Stabilizor A SPM1/SPR	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD	3-Dall PRES (pi
HA#8 HA LETHA DE	BHA WINGTH: SCRIPT MATE: D-1000	(kither) (ki	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7. 1-intergi T: E (in) 1: 0.000 CUME/W	S/O WT 0 (kib) al Blade S 417 38 J 3PM 115 SUI CUMDOO 0 PERS	ULIC ET VEI GPM 401.17 RVE GLEG .45	RT 0 (I	MPS	C: FF % 95.0	(ft-lbf). S SINCE LA de Stabilizer A SPM1/SPR /	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD /SPR2 /	PRES (pl
HA#8 HALEF	BHA WT NGTH: SCRIPT LATE: D-1000 INC	(kith 6	BIT # OW JAR)) 50.55 -Tri-Concoller I.17 HSI	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7, 1-intergri T: EE (in) 1: 0.0000	S/O WT 0 (kib) al Blade S 417 38 J 3PM 115 SUI CUMDOO 0 PERS	ULIC ET VEI GPM 401.17 RVE GLEG	RT 0 (I	MPS	C: 95.0	(ft-lbf). S SINCE L/de Stabilizer A SPM1/SPR /	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD	3-Dnlt PRES (pr
HA#8 HALEF	BHA WINGTH: SCRIPT MATE: D-1000	(kith 6	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 7. 1-intergi T: E (in) 1: 0.000 CUME/W	S/O WT 0 (kib) al Blade S 417 38 J 3PM 115 SUI CUMDOO 0 PERS	Stabilize ULIC ET VEI GPM 401.17 RVE GLEG 45 ONN HRS	RT 0 (I	MPS	C: FF % 95.0 AZIMUT	(ft-lbf). S SINCE L/de Stabilizer A SPM1/SPR /	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD /SPR2 /	JMDOGL POB:
HA#8 HA LET HA DE LOW R # 2 1 1 1 1 1 1 1 1 1	BHA WT NGTH: SCRIPT LATE: D-1000 INC	F BEL (kith	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 T: 1-intergi T: E (in) : 0.000 CUME/W 45 0)	S/O WT 0 (kib) al Blade S 417 38 J 115 SU CUMDOC 00 0 PERS MAN 24	ULIC ET VEI GPM 401.17 RVE GLEG 45 ONN HRS	PASON N	IMPS 8.4 AV D (pai) E 1.650 A INCL	C: FF % 95.0 AZIMUT	(ft-lbf). S SINCE L/de Stabilizer A SPM1/SPR /	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD SPR2	JMDOGL POB: MAN HI 24.00
HA #8 HA LEF HA DE LOW R #	BHA WT NGTH: SCRIPT LATE: D-1000 INC 2.00 DN TEX	FETY	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 T: 1-intergi T: EE (in) 3 0.000 SUM EAW 45 0)	S/O WT 0 (kib) al Blade S YDRA 417 38 J SPM 115 SUJ CUMDOC 00 0 PERS MAN 24 24	ULIC ET VEI GPM 401.17 RVE GLEG 45 ONN HRS	PASON MILITARY	IMPS 8.4 AV D (pai) E 1.650 A INCL	C: FF % 95.0 AZIMUT COMF	(ft-lof) S SINCE LA SINCE LA de Stabilizer A SPM1/SPR / TH TVD	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD /SPR2 /	JMDOGL POB: MAN HI 24.00
HA # 8 HA LEF HA DE LOW R # 2 0 0 0 0 0 0 0 0 0	BHA WT NGTH: SCRIPT LATE: D-1000 ING 2.00	FETY	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) III Collar IMPAC STROK	0.000 T: 1-intergi T: E (in) : 0.000 CUME/W 45 0)	S/O WT 0 (kib) al Blade S 417 38 J 115 SU CUMDOC 00 0 PERS MAN 24	ULIC ET VEI GPM 401.17 RVE GLEG 45 ONN HRS	PASON MILITARY	IMPS 8.4 AV D (pai) E 1.650 A INCL	C: FF % 95.0 AZIMUT COMF	(ft-lof) S SINCE LA SINCE LA de Stabilizer A SPM1/SPR / TH TVD	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD SPR2	JMDOGL
HA#8 HA LEF HA DE OW R # 2 [MD 6,781	BHA WT NGTH: SCRIPT LATE: D-1000 INC 2.00 DN TEX	FETY	BIT # OW JAR b) 150.55 -Tri-Conicollar 1.17 HSI MP 22IMUTH 0.000	LINE	0 MIN ID: Sub, 2-Di 1.527 ER (in) 6.000	(kib) IMPAC STROK 11 N/S C 328	0.000 T: 1-intergri T: EE (in) 5 0.000 SUM E/W 45 0.000	S/O WT 0 (kib) al Blade S YDRA 417 38 J 3PM 115 SUJ CUMDOO 00 PERS MAN 24 144	ULIC ET VEI GPM 401.11 RVE GLEG 45 ONN HRS	PASON MILELSON NIELSON I	IMPS 8.4 AV D (pai) E 1.650 A INCL	C: FF % 95.0 AZIMUT COMFGERS R	(ft-lof) S SINCE LA SINCE LA de Stabilizer A SPM1/SPR / TH TVD	/ (ff-ibf) AST INSPEC , 21-Drill Col V DP: PRES (pa	ilar, 1-Drilli	ECD / EW CL	JMDOGL POB: MAN HI 24.00



	ame: S	<u>wu</u>	#5				WBS	<u> </u>	I C I A	JVF CAN	2.DRILL	API: 43-	<u>015-30</u>	510	Rpt	#: :	<u> 27 </u>	Date	e <u>: 1/</u> 1.	/2002
W	/ELL	INF	0		EI	EVAT	IONS_							TH/D						
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HAÇK	BLANK	ENS	HIP			CAG	ING						eTe i	NOI C		014	D			
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CELLPI	HONE:	903 !	520-056	`		 			-	<u> </u>				npCash						
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			REP TIM		// BIT # 9															
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MANHE	RS WO	₹KEI	D: 222.0	SAFE	Y MTGS	ATTEND	DED: 1 DAY	S SINCE	LAST I	LTA RIG/	OPER: 2	5 / 25	RE	2: N F/	A: N	GOV	/T INS	P?		
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06:00	07:	00	1.00	PT	006	TI	H W/BIT	# 9 TO 6	780'											
07:00	08:	30	1.50	N3	029	W	ASH & RE	AM 94', I	FROM	4 6780' 7	TO 6876									
08:30	00:	00	15.50	PT	002	DI	RILL FROM	4 6876' T	O 700	00'. ROF	8 FPH.	WOB 5	0-55. R	PM 60	-65					
00:00		no	1.00	PT	005		RCULATE													
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01:00			1.00	+	900		IPER TRI													
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						7.7	*	MUD P	ROP	ERTI	ES	DAII	Y COS	Т	2,6	67 C	UM C	OST		27,892
TIME	DEPT	н	WT	VIS TEM	PVYP	GELS !	WL/HTH			NDX CE		Pm/Pf	Chi	Ca	Oil%/C	WE	S/ExL	TYP	E LC	S/DS
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	3,55				1,000	Ų.U	0.0	1 0.0	_		110.00	1.20.40		100	<u>'</u>				•••	70.5
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	9		BIT #				BHA	/ HOL		15.50 ONDI	IONS	24					124			
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	9	_	BIT #		Ρ		BHA	/ HOL		15.50 ONDI	IONS VT	24	TOR		/OFF		124		ON.	ARS
BHA#	BHA V	(BIT #		Ρ	U WT	BHA	V HOL		15.50 ONDI T RT V	IONS VT	24 BHA HR	TOR	2UE ON	I/OFF	CTIC			ON.	
BHA#1	BHA V	(BIT # ELOW J kib) 850.55	ARS	P. C	U WT	0.000	A/HOL S/O WT 0 (kib)	E C	15.50 ONDIT RT V 0 (ki	TIONS VT	BHA HR	TOR((ft- S SINC	DUE ON lbf) / (ft E LAST	I/OFF lbf) INSPE		ON:	HRS		
BHA#	BHA V	(BIT # ELOW J kib) 850.55	ARS	P. C	U WT	BHA	A/HOL S/O WT 0 (kib)	E C	15.50 ONDIT RT V 0 (ki	TIONS VT	BHA HR	TOR((ft- S SINC	DUE ON lbf) / (ft E LAST	I/OFF lbf) INSPE		ON:	HRS		
BHA#	BHA V	(BIT # ELOW J klb) 850.55 N:1-Tri-C	ARS	P. C	U WT	0.000	M HOL WO WT 0 (kib) Blade Sta	E C	15.50 ONDIT RT V 0 (kl	1 TIONS VT	BHA HR	TOR((ft- S SINC	DUE ON lbf) / (ft E LAST	I/OFF lbf) INSPE		ON:	HRS		
BHA#1 BHA LE	BHA V BHA V INGTH	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar	ARS	MIN ID:	(kib)	0.000 r. 1-Intergrad	HOL NO WT 0 (kib) Blade Sta	E C	15.50 ONDIT RT V 0 (kl	1 TIONS. VT ib) otier, 1-int	BHA HR orgral Bla	TOR((ft- S SINC	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF -ibf) INSPE -Drill Ci		ON:	HRS	3-On	
BHA #1	BHA V BHA V INGTH	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar	ARS one Bit, 1-E	P. C. MIN ID: it Sub, 2-C.	U WT (kib)	0.000 r. 1-Intergral	HOL WO WT 0 (kib) Blade Sta (DRAU 17.38) JET	LE C	15.50 ONDIT RT V 0 (ki	1 TIONS NT lib) olier, 1-int	BHA HR orgral Bla	TOR((ft- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	, 3-On	1
BHA#	BHA VENGTHESCRIF	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 r, 1-intergrad H) CT: 41 (E (in) SF	HOLEYO WT 0 (kib) Blade Sta DRAU 7.38 JET	EC	15.50 ONDIT RT V 0 (kl	1 TIONS NT lib) olier, 1-int	BHA HR orgral Bla	TOR((ft- S SINC	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF -ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	, 3-On	1
BHA #1	BHA V BHA V INGTH	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar	ARS one Bit, 1-E	P. C. MIN ID: it Sub, 2-C.	U WT (kib) rill Colla	0.000 r, 1-intergrad H) CT: 41 (E (in) SF	HOLEYO WT 0 (kib) Blade Sta DRAU 7.38 JET	LE C	15.50 ONDIT RT V 0 (ki 1-Onil C 3 / PU 218 PRES (1 TIONS NT lib) olier, 1-int	BHA HR orgral Bla	TOR((ft- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	, 3-On	
BHA#9	BHA VENGTHESCRIF	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 r, 1-intergrat H) CT: 41 (E (in) SF	M/HOL SO WT 0 (kib) Blade Sta (DRAU 17 38 JET PM GI 1115 4	LICS F VEL: PM 01.17	15.50 ONDIT RT V 0 (kl 1-Dnill Cl 216 PRES (ITIONS VT Ib) Oliar, 1-Int MPS 3.4 AV Di (pel) E	BHA HR orgral Bla	TOR((ft- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	3-On	S (pel)
BHA#	BHA VENGTHESCRIF	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar IO1.17 I	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 r, 1-intergrat H) CT: 41 (E (in) SF	MANUAL PARTIES AND CONTROL OF CON	E C	15.50 ONDIT RT V 0 (kl 1-Dnill Cl 216 PRES (ITIONS VT Ib) Oliar, 1-Int MPS 3.4 AV Di (pel) E	BHA HR orgral Bla C: FF % 95.0	TORG (ft- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	3-On PRE	S (pel)
3HA #1	BHA VENGTHESCRIF	TIOI	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar IO1.17 I	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 r, 1-intergrad CT: 41 CE (in) SF 0.000	M/HOL S/O WT 0 (kib) Blade Sta (DRAU 17 39 JET PM GI 1115 41 PERSO MAN H	LICS VEL: PM 01.17 NNE	15.50 ONDIT RT V 0 (kl 1-Drill C S / PU 216 PRES (1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BHA HR orgral Bla C: FF % 95.0	TORG (ft- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	PRE PO	S (pel) DB: 11 N HR:
BHA#9 BHA LE BHA DE	BHAVENGTH ESCRIF	TIOI P	BIT # ELOW J kib) 850.55 N:1-Tri-C Collar IO1.17 I PUMP	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 7. 1-intergrad HY CT: 41 CE (in) SF 0.000	V/HOL S/O WT 0 (kib) Blade Sta CDRAU 7 38 JET M GI 115 4 PERSC MAN HI 24 00	LE C	15.50 ONDIT RT V 0 (kl 1-Drill C 216 PRES (1 EL DA	ITIONS VT ib) oiler, 1-int MPS 3.4 AV Di (pel) E .690 TA	BHA HR orgral Bla C: FF % 95 0 COMF	TORI (III- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS ing Jar ECE /SPR2 /	PRE P(S (pel) DB: 11 N HR:
BHA #1 BHA DE BHA DE	BHAVENGTH ESCRIF	TIOI P XAC	BIT M ELOW J kib) 850.55 N:1-Tri-C Collar I01.17 I UMP	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 7. 1-Intergral HY CT: 4: (E (in) SF 0.000	M/HOL S/O WT 0 (kib) Blade Sta 7 38 JET 7 38 JET 115 4 PERSC MAN HI 24 00 24 00	ILICS FVEL: PM 01.17 NNE RS	15.50 ONDIT RT V 0 (kl 1-Drill C 216 PRES (1 EL DA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	BHA HR orgral Bla C: FF % 95 0 COMF	TORI (III- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS	PRE P(S (pel) DB: 11 N HR:
BHA # 1 BHA DE	BHAVENGTH ESCRIF	TIOI P XAC	BIT M ELOW J kib) 850.55 N:1-Tri-C Collar I01.17 I UMP	ARS one Bit, 1-E	P. (in MIN ID: it Sub, 2-C	U WT (kib) rill Colla	0.000 7. 1-intergrad HY CT: 41 CE (in) SF 0.000	V/HOL S/O WT 0 (kib) Blade Sta CDRAU 7 38 JET M GI 115 4 PERSC MAN HI 24 00	ILICS T VEL: PM 01.17 DNNE RS 0	15.50 ONDIT RT V 0 (kl 1-Drill C 216 PRES (1 EL DA	ITIONS VT ib) oiler, 1-int MPS 3.4 AV Di (pel) E .690 TA	BHA HR orgral Bla C: FF % 95 0 COMF R UCTION	TORI (III- S SINC de Stab	DUE ON lbf) / (ft E LAST lizer, 21	I/OFF Ibf) INSPE -Drill Ci	ollar,	DN: 1-Dnlli	HRS ing Jar ECE /SPR2 /	PRE P(S (pel) DB: 11 N HR:



CHEVRON TEXACO

Page 2 of 2

		MORNING	REPORT		
Well Name: SWD #5		WBSE: DD01CTA	3VF.CAP.DRILL API: 43-015-30510	Rpt #: 27	Date: 1/1/2002
	DAIL	Y_OPERATIO	NAL COMMENTS		
NO ACCIDENTS, SPILLS OR NEAR MISSE TD CHANGED TO 7000' @ 1400 HOURS 1	ES, SAFETY MEETIN 2/31/2001	IG W/ RIG CREWS			
<u></u>					
			·		
	-				



1A/	ame: 5	WD:	¥ 5				WBS	E: DD01C1	A3VF.C	AP DRILL	API: 43-	015-305	10	Rpt#:	28	Дa	te: 1	/2/2002
Y.V	ELL	INE)		EL	EVA	TIONS_					DEP.	TH/D	AYS				
IELD: I				RKB:		908.00 (L/DFS:			28.0	00 / 22.00
	ATE: 1								MD/TVD	:	7.000 (ft)	/ 6,662 ((t) 24 F	HR ROP:				
	TTERS		55						FOOTAG	GE:		(ft) PRO	OPOSED	TD:			8,000 (ft
RLGS				NEXT	CSG: 7	000 (in)	@ 8,000 (ft)		ORILL H	RS:			AFE	∃ Days +/	- Goal:			
	BLANKI					_CAS	SING				COS	STS D	RLG	& CO	MP			
RIG PHO CELLPH				CSG	MD	TVD	TOL	LO LNR		DH Cash		H Com				nteng	1	TOTAL
NGR:	10146. 1	903 34	.0-0367	9.625	3,010	3,010	0	N	Est.	1,097,000	0 61,	000 2	39,000	204.0	00	Q)	1,601,00
DALE N	MITCHE	ELL		13.37	304	304		N	Est+OE	1,097.000	0 61,	000 2	39,000	204,0	00	0)	1,601,00
									Cum	629,713	3 5,	566	81,099	35,6	37	41,621		793,63
				i	<u> </u>	<u> </u>			Daily	35,890	0	0	o		0	0)	35,89
			EP TIM		W/BIT#	-												
LANNE	ED OPE	RATI	ONS:	WLLO	GS TRIP	L/D DR	RILL STRING											
		<u></u> ,					S	AFETY	SUMMA	\RY								
IANHR	S WOF	RKED:	248.00	SAFETY	MTGS	ATTEN	DED: 1 DAY	S SINCE LAS	T LTA RIC	3/OPER: 26	3 / 26	REC	: N F/A	A:N G	OVTI	ISP?		
CIDE	NT? NC)	INC	IDENT TYP	E:		SAFETY C	OMMENTS:	WORKING	AROUND	LOGGIN	G EQUIP	MENT					
CIDE	NT DES	CRIP	TION:															
							ΛP	EDATIO	M CINE	MARY								
ROM	TC	, _	HRS	P/NPT	COD	E	<u></u>	ERATIO	A STAIN		ESCRIP	TION			y -			
06:00	08:0	_	2.00	PT	007		NICH TOO	LIMIDIT #	0.500.4				751 4					
				+				H W/BIT#			SURVE	1 (C) 69	/5 = 1.	-1/2 DEC	SKEE			
08:00	13:0		5.00	N2	011			CHLUMBER										
13:00	13:3	30	0.50	PT	026			ETING W/	SCHLUM	BERGER,	, R/U, GI	ENERA	TOR N	OT FUN	1CTIO	NING	PRO	OPERL
					·		N LOGGIN											
13:30	17:0	_	3.50	N2	011	ı w	AIT ON SE	COND LO	GGING U	INIT	· · · · · · · · · · · · · · · · · · ·							
17:00	18:3	30	1.50	PT	011	R,	/U SCHLUN	MBERGER										_
18:30	22:3	30	4.00	PT	011	L LC	OG W/ PLA	TFORM EX	PRESS	RUN # 1, l	LOGGE	RS DEP	TH = 6	3996'				
22:30	02:3	30	4.00	PT	006	t Ti	HW/RIT	O T40 0										
						, , , ,	***	r 9, r A G (Q)	6994', W	ASH 6' TO	BOTTO	DM						
02:30	05:0	00	2.50	PT	005			& CONDIT										
02:30 05:00	05:0		2.50 1.00	PT PT		c c	IRCULATE		ION HOL	E TO RUI	N CASIN	iG						
					005	c c	IRCULATE	& CONDIT	ION HOL	E TO RUI	N CASIN	iG						
					005	c c	IRCULATE	& CONDIT	ION HOL	E TO RUI	N CASIN	iG						
	06:0	00	1.00	PT	030	S C	IRCULATE	& CONDIT	ION HOL	E TO RUI	N CASIN MACHIN	IG NE						
05:00	06:0	00	1.00	РТ	030	S C	IRCULATE AFETY ME	& CONDIT	ION HOL	E TO RUI Y DOWN	N CASIN MACHIN	iG		876	CUM	соэт		28,76
05:00	06:0	00	1.00	PT	030	S C	IRCULATE AFETY ME	& CONDITETING & R	ION HOL	E TO RUI Y DOWN	N CASIN MACHIN	IG NE		876 Oil%/OW		·	PE	
05:00 TIME	06:0	н \	1.00 NT \	РТ	030	S C	IRCULATE AFETY ME	& CONDITETING & R	ION HOL	E TO RUI Y DOWN IES EC PH	N CASIN MACHIN	IG NE Y COST				·		
05:00 TIME	06:0	н \	1.00 NT \	PT	005 030	GELS	IRCULATE AFETY ME WL/HTHP	& CONDITETING & R MUD_PRO SOLIDS 6.0	OPERT SANDY C 1.25	E TO RUI Y DOWN IES EC PH	MACHIN	IG NE Y COST Chi	Ca			TY		LGS/DS
05:00 TIME 13:00	06:0	н \	1.00 NT \	/IS TEMP	005 030	GELS 3/6	IRCULATE AFETY ME WL/HTHP	& CONDITETING & R MUD PRO SOLIDS 6.0	OPERT SANDY C 1.25	E TO RUI Y DOWN IES EC PH	DAIL Pm/Pf 1.2/0.40	Y COST Chi 200	Ca (oil%/OW /	ES/E>	WAT	ER	LGS/DS /6.5
05:00 TIME 13:00	06:0 DEPT 6,385) H \ \ S \ 8	1.00 VT \ 0.20	/IS TEMP	005 030 PV/YP 10/8	GELS 3/6	MUHTHF	& CONDITETING & R MUD PR SOLIDS 6.0 B	OPERT SANDY C 1.25 JETS OF	E TO RUI Y DOWN IES EC pH 10.00	DAIL Pm/Pf 1.2/0.40	Y COST Chi 200	Ca (ES/E>	WAT	ER	LGS/DS /6.5
05:00 TIME 13:00	06:0 DEPT 6,385	H V	1.00 VT \ 0.20	PT //S TEMP 35 80 ANUFACT	905 030 PV/YP 10/8	GELS 3/6	WUNTHE 9.6/ DC SERM	& CONDITETING & R MUD PRO SOLIDS 6.0 B	DPERT SANDY C 1.25 JETS OF	ETO RUI Y DOWN IES EC PH 10.00	DAIL Pm/Pf 1.2/0.40	Y COST Chi 200	Ca (oil%/OW /	ES/E>	WAT	ER	LGS/DS /6.5
05:00 TIME 13:00	06:0 DEPT 6,385 SIT #	81Z 8.75	1.00 NT \ 20	PT //S TEMP 35 80 ANUFACT Smith	005 030 PV/YP 10/8 TYPE F30-T	GELS 3/6	WUNTHE 9.6/ DC SERIA 7X MK4	MUD PRO SOLIDS 6.0 B NL#	DPERT SANDY CO. 1.25 JETS OF 16/16/16/16/16/16/16/16/16/16/16/16/16/1	ETORUMY DOWN IES EC PH 10.00 R TFA	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200	Ca 160 DEPTH	Oil%/OW /	ES/E	WAT	B	/8.5 G O F
05:00 TIME 13:00 RUN 1	06:0 DEPT 6,385 SIT # 9	81Z 8.75	1.00 WT \ 1.20	PT //S TEMP 35 80 ANUFACT Smith	005 030 PV/YP 10/8 TYPE F30-T	GELS 3/6	WUNTHE 9.6/ DC SERM	MUD PRO SOLIDS 6.0 B NL#	DPERT SANDY C 1.25 JETS OF	ETO RUI Y DOWN IES EC PH 10.00	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200	Ca 160 160 DEPTH	OII%/OW / I OUT I	ES/E>	DEPTH	B	/8.5 G O F
05:00 TIME 13:00 RUN 1 RUN 1	06:0 DEPT 6,385 SIT # 9	81Z 8.75	1.00 NT \ 1.20 \	PT //S TEMP 35 80 ANUFACT Smith	005 030 PV/YP 10/8 TYPE F30-T	GELS 3/6	WUNTHF 9.6/ DC SERIA TX MK4	MUD_PRO SOLIDS 6.0 BIT_OPE RE PBIT	DPERT SANDY C 1.25 JETS OF RATIO HRS	EC PH 10.00	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200	Ca 160 160 DEPTH	Oil%/OW /	ES/E>	WAT	B	28,768 LGS/DS /8.5 G O F
05:00 TIME 13:00 1 1 1 1 1 1 1 1 1	06:0 DEPT 6,385 917 # 9	81Z 8.75	1.00 NT 1.20 E M SO WOB	PT //S TEMP 35 80 ANUFACT Smith RPI /	005 030 PV/YP 10/6 TYPE F30-T	GELS 3/6	WUNTHF 9.6/ DC SERIA TX MK41	MUD_PROPERTY SOLIDS SOLIDS 6.0 BIT OPE P BIT OPE	OPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO HRS	ETORUMY DOWN IES EC PH 10.00 R TFA MILLIMINI NS 24HR	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200 TH IN 176.0	Ca (160 DEPTH	Oil%/OW / / I OUT I	ES/E>	DEPTH	B	/8.5 G O F
05:00 TIME 13:00 RUN 1 RUN 1	06:0 DEPT 6,385 917 # 9	81Z 8.75	1.00 NT N 1.20	PT //S TEMP 35 80 ANUFACT Smith RPI /	PV/YP 10/6 TYPE F30-T	GELS 3/6	WUNTHF 9.6/ DC SERIA TX MK41	MUD_PRO SOLIDS 6.0 BIT_OPE RE PBIT	OPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO HRS	EC PH 10.00	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200 TH IN 176.0	Ca 160 160 DEPTH	Oil%/OW / / I OUT I	ES/E>	DEPTH	B G	/8.5 G O F
05:00 TIME 13:00 RUN 1 RUN 1	06:0 DEPT 6,385 917 # 9	81Z 8.75	1.00 NT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PT //S TEMP 35 80 ANUFACT Smith RPI /	PV/YP 10/6 TYPE F30-T	GELS 3/6	WUNTHF 9.6/ DC SERIA TX MK41	MUD_PROPERTY SOLIDS SOLIDS 6.0 BIT OPE P BIT OPE	OPERT SANDY C 1.25 JETS OF 16/16/16 RATIO HRS	ETORUMY DOWN IES EC PH 10.00 R TFA MILLIMINI NS 24HR	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200 TH IN 176.0	Ca (160 DEPTH	Oil%/OW / / OUT I	ES/E>	DEPTH	B G	/8.5 G O F CUM RO
05:00 TIME 13:00 RUN 1 RUN 1 1 3HA #9	06:0 DEPT 6,385 SIT # 9 BIT #	H \ \\ SIZ 8.75	1.00 NT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PT //S TEMP 35 80 ANUFACT Smith RPI /	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM	WUNTHF 9.6/ DC SERIA TX MK41	MUD PROPERTY SOLIDS SOLIDS 6.0 BIT OPE P SIT OPE VO WY	OPERT SANDY C 1.25 JETS OF 16/16/16 RATIO HRS	ETORUMY DOWN IES EC PH 10.00 RTFA WIIIIII NS 24HR ITIONS WT	DAIL Pm/Pf 1.2/0.40 DEP 6,6	Y COST Chi 200 TH IN 176.0 TORQI (ft-lb	DEPTH DP CU	Oil%/OW / / I OUT I	(CUM	DEPTH	B G	/8.5 G O F CUM RO
05:00 TIME 13:00 1 1 1 1 1 1 1 1 1	06:0 DEPT 6,385 SIT # 9 BIT # 9	H N SIZ	1.00 WT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PT //S TEMP 35 80 ANUFACT Smith RPI ,	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WUNTHF 9.6/ DC SERM 7X MK41 PRESSUF S 0.000	MUD_PROPERTY SOLIDS BIT OPE RE PBIT V HOLE (kib)	OPERT SANDY C 1.25 JETS OF 16/16/16 RATIO HRS	ETORUMY DOWN IES EC PH 10.00 R TFA MILLIMIT NS 24HR ITIONS WT	DAIL Pm/Pf 1.2/0.40 DEP 6.6	Y COST Chi 200 TH IN 176.0 TOROI (ft-lb 5 SINCE	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH	B (G O F
05:00 TIME 13:00 1 1 1 1 1 1 1 1 1	06:0 DEPT 6,385 SIT # 9 BIT # 9	HI V SIZE S.75	1.00 WT \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	PT //S TEMP 35 80 ANUFACT Smith RPI ,	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WUNTHF 9.6/ DC SERM 7X MK41 PRESSUF S 0.000	MUD PROPERTY SOLIDS SOLIDS 6.0 BIT OPE P SIT OPE VO WY	OPERT SANDY C 1.25 JETS OF 16/16/16 RATIO HRS	ETORUMY DOWN IES EC PH 10.00 R TFA MILLIMIT NS 24HR ITIONS WT	DAIL Pm/Pf 1.2/0.40 DEP 6.6	Y COST Chi 200 TH IN 176.0 TOROI (ft-lb 5 SINCE	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH	B (G O F
05:00 TIME 13:00 1 1 1 1 1 1 1 1 1	06:0 DEPT 6,385 SIT # 9 BIT # 9	HI V SIZE S.75	1.00 NYT 1.20 EE M NOB / BIT # J COW J/ D) 050 1-Tn-Cc	PT //S TEMP 35 80 ANUFACT Smith RPI ,	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WL/HTHF 9.6/ DC SERI/ 7X MK4 PRESSUF BHA S 0.000 gr. 1-intergral	MUD PROPERTY SOLIDS BIT OPE BIT OPE A/ HOLE A/ HOLE Blade Stability	DPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO RT (I)	ETORUMY DOWN IES EC pH 10.00 R TFA MIIIIII NS 24HR ITIONS WT (db)	DAIL Pm/Pf 1.2/0.40 DEP 6.6	Y COST Chi 200 TH IN 176.0 TOROI (ft-lb 5 SINCE	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH	B ()	GUM RO 8.00 N JARS
05:00 FIME 3:00 1 1 1 1 1 1 1 1 1	06:0 DEPT 6,385 SIT # 9 BIT # 9	HI V SIZE S.75	1.00 NYT 1.20 EE M NOB / BIT # J COW J/ D) 050 1-Tn-Cc	PT //S TEMP 35 80 ANUFACT Smith RPN / ARS	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WL/HTHF 9.6/ DC SERI/ 7X MK4 PRESSUF BHA S 0.000 gr. 1-intergral	MUD PROPERTY SOLIDS SOLIDS BIT OPE RE P SIT A/HOLE C(kib) Blade Stability CERSON	DPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO RT (I)	ETORUMY DOWN IES EC pH 10.00 R TFA MIIIIII NS 24HR ITIONS WT (db)	DAIL Pm/Pf 1.2/0.40 DEF 6,6	Y COST Chi 200 TH IN 178.0 TOROI (ft-lb S SINCE	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH 24.0	B (/6.5 G O II 8.00 N JARS
05:00 FIME 13:00 1 1 1 1 1 1 1 1 1	06:0 DEPT: 6,385 9 BIT # 9 BHA W	H N SIZ	1.00 E MOS SIT # 350 DSS 55 1-Tri-CcOllar	PT //S TEMP 35 80 ANUFACT Smith RPN / ARS	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WL/HTHF 9.6/ PRESSUF BHA S 0.000 w. 1-intergral	MUD PROPERTY SOLIDS BIT OPE BIT OPE A/ HOLE A/ HOLE A/ HOLE A/ HOLE Blade Stability Blade Stability Blade Stability	DPERT SANDY C 1.25 TS JETS OF 16/16/16 HRS COND RT (I)	IES EC PH 10.00 RTFA MILLINI NS 24HR LTIONS WT (Ib) Coller, 1-Inte	DAIL Pm/Pf 1.2/0.40 DEF 6.6	Y COST Chi 200 TH IN 178.0 TOROL (ff-lb S SINCE	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH 24.0	B (/8.5 G O II CUM RO 8.00 N JARS Drill POB: 2
O5:00 TIME 13:00 1 1 1 1 1 1 1 1 1	DEPTH 6,385 817 # 9 BHA W	H N SIZE STORY	1.00 E M S0 S0 S1T # S50 S50.55 1-Tri-CCColler COMI	PT //S TEMP 35 80 ANUFACT Smith RPN / ARS	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WL/HTHF 9.6/ DC SERIA TX MK4 PRESSUF BHA S 0.000 IT. 1-intergral	BIT OPE WILL # BIT OPE RE PBIT A / HOLE (kib) Blade Stabilit PERSON MAN HRS 24.00	DPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO HRS COND RT (I) NEL DA	ETORUMY DOWN IES EC pH 10.00 R TFA WITHING ATA N CONSTR	DAIL PM/Pf 1.2/0.40 DEF 6.6 BHA HR: orgraf Blac COMP	Y COST Chi 200 TH IN 176.0 Z4HR RC (ft-lb S SINCE de Stabilit ANY INC	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I JM HRS 15.50 OFF bf) NSPECT	CUM 1	L TYRE	B (/8.5 GON ROBOTO ROBITO ROBOTO ROBOTO ROBOTO ROBOTO ROBOTO ROBITO ROBITO ROBITO ROBOTO ROBOTO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO ROBITO
O5:00 TTIME 13:00 1 14 15 15 15 15 15 15	DEPTH 6,385 9 9 BHA W	H N SE SIZE S.75	1.00 E M S0 S0 S1T # S50 S50.55 1-Tri-CCColler COMI	PT //S TEMP 35 80 ANUFACT Smith RPN / ARS	PV/YP 10/6 TYPE F30-T	GELS 3/6 IAI GPM GUWT (kib)	WL/HTHF 9.6/ DC SERIA TX MK41 PRESSUF BHA S 0.000 w. 1-intergral	MUD PRO SOLIDS 6.0 BIT OPE RE PBIT (kib) Blade Stabilit PERSON MAN HRS 24.00 24.00	DPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO HRS COND RT (I) NEL DA	ETORUMY DOWN IES EC pH 10.00 R TFA WITHING ATA N CONSTR. RBERGER V	DAIL PM/Pf 1.2/0.40 DEF 6.6 BHA HR: orgraf Blac COMP	Y COST Chi 200 TH IN 176.0 Z4HR RC (ft-lb S SINCE de Stabilit ANY INC	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I I JM HRS 15.50 OFF bf) NSPECT	CUM 1	DEPTH 24.0	B (KGS/DS /8.5 G O F CUM RO 8.00 N JARS Drill POB: 2
TIME 13:00 RUN 1 RUN 1 BHA # 9 CHEVRO	DEPTH 6,385 9 9 BHA W	H N SE SIZE S.75	1.00 E M S0 S0 S1T # S50 S50.55 1-Tri-CCColler COMI	PT //S TEMP 35 80 ANUFACT Smith RPN / ARS	PV/YP 10/6 TYPE F30-T	GELS 3/6 LAI 52 GPM (kib)	PRESSUF O 0000 I. 1-intergral II.	BIT OPE WILL # BIT OPE RE PBIT A / HOLE (kib) Blade Stabilit PERSON MAN HRS 24.00	DPERT SANDY C 1.25 TS JETS OF 16/16/16 RATIO HRS COND RT (I) NEL DA NIELSOI SCHLUM R & S C	ETORUMY DOWN IES EC PH 10.00 RTFA WILLIAM RTFA WILLIAM CONSTRUM ASING CRE	DAIL Pm/Pf 1.2/0.40 DEF 6.6 BHA HR: orgral Blac COMP UCTION WIRELING	Y COST Chi 200 TH IN 176.0 Z4HR RC (ft-lb S SINCE de Stabilit ANY INC	DEPTH DP CU UE ON/ If / (ft-I	Oil%/OW / I OUT I I JM HRS 15.50 OFF bf) NSPECT	CUM 1	L TYRE	B (/6.5 GONRO 8.00 N JARS Drill POB: 2 MAN HR 2.00



	ame: SWi)#5						WASE	י ספחורי	A3VF C4	P.DRILL /	API- 43.0-	15,30510) P	pt #: :	29 D~	te: 1/3/2002
1016	ELL IN			T	==	EVA	TION		. 220101	1001.07	/ ۱۱۹۰۰ - ۱۰۰۰ - ۱۰۰۰ - ۱۰۰۰		DEPTH				10. 119/2002
	HUNNING			RKB:		908.00 (<u> </u>		+				DOL/DF			29.00 / 23.00
	ATE: 12/5					,,,,,,,	,			MD/TVD		7,000 (ft) /	6 662 (ff)				23.007 23.00
	TTERSON									FOOTAG		,,000 (.1,, /		PROPO		n.	8,000 (ft)
ORLG S	UPRS:			NEXT	CSG: 7.	.000 (in)	0.8 00	00 (ft)		DRILL H			()	AFE Da			0.000 (11)
HACK E	BLANKEN:	SHIP		 				, ,		1			FO DO	<u> </u>	_		
RIG PHO	ONE: 435	387-219	7	CSG	MD	_	SING		. T	 			IS DR				
CELLPH	IONE: 903	520-05	67		4	TVD		Or 1	LO LNR	4	DH Cash		CompC			Conteng	TOTAL
ENGR:				9.625		1	1		N	Est.	1,097,000	1			04,000	0	
DALE M	MITCHELL			13.375	304	304	'	- 1	N	Est+OE	1,097,000	1			04,000	-	1 .,
								İ	j	Cum	629,713				00,047	41,621	896,48
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								SA	FETY:	SUMMA	NRY						
ANHR	SWORKE	D: 383.	00	SAFETY	MTGS	ATTEN	DED: 1	DAYS :	SINCE LAS	ST LTA RIC	3/OPER: 27	/ 27	REC: N	F/A: N	GO\	/T INSP?	
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03:30	04:30	1.00)	PT	021	I R	סם סע	WELL,	& CLEAN	CELLAR							
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e in anger	Kalajan Suring ya Tanan	1,7% 65	5 - 5 - 6 - 1 - 5	garage and	· - alifake	ar dilike is	e light teach	112 M	UD PRO	OPERT	ES	DAILY	COST	2 (- ij 2 ij 1 j - ij	C	UM COST	28,768
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13:00	6,385	9.20 19.20	aseyd	tanger t		_					air sa ei sa sar				_		····
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13:00	6,385 8/1*# 8 9 8	9.20 NZE .750	MANL Sn	tanger t		I IA			#		TFA		H IN DE		_		****
13:00 RUN 1	6,385 8/1*# 8 9 8	9.20 19.20 NZE	MANL Sn	JFACT	TYPE	I IA	DC 27X	SERIAL MK410	# 2 5 5 6 °	JETS OF 16/16/16	TFA	DEPT	H IN DE		_		****
13:00 RUN 1	6,385 8/1*# 8 9 8	9.20 NZE .750	MANL Sn	JFACT nith	F30-T	I IA	DC 7X	SERIAL MK410	# OPE	JETS OF 16/16/16	TFA	DEPT 6.87	H IN DE	PTH OU	П		BGOR
13:00 RUN 1	6,385 8/7# 1 9 6	9.20 NZE	MANL Sn	JFACT nith	F30-T	52 52	PRE	SERIAL MK4101 B SSURE	T OPE	JETS OF 16/16/16 RATIO HRS	NS 24HR	DEPT 6.87	H IN DE	PTH OU	П	0 B L	BGOR
RUN 1 1 SHA#9	6,385 8/7# 8 9 6	9.20 BIZE	MANL Sn	JFACT nith	F30-T	I IA 52 GPM	PRE	SERIAL MK4101 B SSURE BHA	T OPE P BIT	JETS OF 16/16/16 RATIO HRS COND	TIONS	6,870 FTG 24	H IN DE	CUMH	IRS C	O D L	B G O R
RUN 1 1 SHA#9	6,385 8/7# 1 9 6	9.20 BIZE	MANL Sn	JFACT nith	F30-T	52 52	PRE	SERIAL MK4101 B SSURE BHA	T OPE	JETS OF 16/16/16 RATIO HRS COND	NS 24HR	6,870 FTG 24	H IN DE	CUM H	IRS C	O D L	BGOR
13:00 RUN 1 RUN BHA#9	6,385 BIT# 8 9 6	9.20 NZE .750 WOS BIT	MANL Sn	JFACT nith	7 YPE F30-T	GPM	PRE	SERIAL MK4101 B SSURE BHA/ S/C	T OPE P BIT	JETS OF 16/16/16 RATIO HRS COND	TIONS	6,870 FTG 24	H IN DE	CUM H	IRS C	O D L	B G O R
RUN 1 1 SHA #9	6,385 8/T# 8 9 6 6/T# BHA WT E	9.20 NZE .750 WOB BIT BELOW	MANU Sn JARS	JFACT nith	F30-T	GPM	PRE	SERIAL MK4101 BESSURE BHA/ S/C	T OPE PBIT HOLE	JETS OF 18/16/16 RATIO HRS COND	NS 24HR TIONS	DEPT 6,870 FTG 24	HIN DE	CUM H	RS C	O D L SUM DEPTH	B G O R
RUN 1 1 SHA #9	6,385 8/T# 8 9 6 6/T# BHA WT E	9.20 SIZE .750 WOB BIT BELOW 850.5	MANL Sn # JARS 5	JFACT nith	F30-T	GPM	PRE	SERIAL MK4101 BESSURE BHA/ S/C	T OPE PBIT HOLE	JETS OF 18/16/16 RATIO HRS COND	NS 24HR	DEPT 6,870 FTG 24	HIN DE	CUM H	RS C	O D L SUM DEPTH	B G O R
RUN 1 BHA #9	8:T# 1 9 8 BHA WT E NGTH: SCRIPTIO	9.20 NOS WOS BIT BELOW 850.5	MANL Sn # JARS 5 Cone E	JFACT nith	F30-T	GPM	PRE	SERIAL MK4101 BESSURE BHA/ S/C	T OPE PBIT HOLE	JETS OF 18/16/16 RATIO HRS COND	NS 24HR TIONS	DEPT 6,870 FTG 24	HIN DE	CUM H	RS C	O D L SUM DEPTH	B G O R
RUN 1 RUN BHA#9	6,385 8/T# 8 9 6 6/T# BHA WT E	9.20 NOS WOS BIT BELOW 850.5	MANL Sn # JARS 5 Cone E	JFACT nith	F30-T	GPM	PRE	SERIAL MK4100 BESSURE BHA/ S/C	F BIT HOLE WT	JETS OF 16/16/16 RATIO HRS COND RT	NS 24HR TIONS WT	DEPT 6,870 FTG 24	HIN DE	CUM H	RS C	O D L SUM DEPTH	B G O R CUM ROF S ON JARS
RUN 1 RUN BHA#9	8:T# 1 9 8 BHA WT E NGTH:	9.20 THE PROPERTY OF THE PROPE	MANL Sn # JARS 5 Cone E	JFACT nith	F30-T	GPM	PRE Oner, 1-Int	SERIAL MK4109 BESSURE BHA S/C 0000 orgraf Bi	T OPE PBIT HOLE	JETS OF 16/16/16 RATIO HRS COND RT	NS 24HR TIONS WT	DEPT 6,870 FTG 24	HIN DE	CUM H	RS C	O D L SUM DEPTH	B G O R CUM ROF S ON JARS 7, 3-Drill POB: 33
RUN 1 1 HA # 9 HA LEN	6,385 SIT# 1 9 8 BIT# BHA WT E NGTH: SCRIPTIC	9.20 15.20 17.50 WOB BIT BELOW 850.5	MANL Sn # JARS Cone E	JFACT nith	F30-T	GPM	PRE O. Mr. 1-Int	SERIAL MK4104 BSSURE SHA S/C 0000 orgrad Bi	# PBIT HOLE WT RESON	JETS OF 16/16/16 RATIO HRS COND RT	TIONS WT Collar, 1-Inte	PTG 24 BHA HRS rgral Blade COMPA	HIN DE	CUM H	PECTIO	O D L CUM DEPTH	B G O F CUM ROF S ON JARS 7, 3-Dnil POB: 33
RUN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8/1# 1 9 8 BHA WT E NGTH: SCRIPTIC	9.20 TOTAL STATE OF THE COLOR O	MANL Sn # JARS Cone E	JFACT nith	F30-T	GPM	PRE	SERIAL MK4101 BESSURE BHA / S/C	# PBIT OPE PBIT HOLE WT RIGHT ROOM STANDING STA	JETS OF 16/16/16 RATIO HRS COND RT cor, 1-Drill	TIONS WT Coller, 1-Inte	PTG 24 BHA HRS rgral Blade COMPA	HIN DE	CUM H	PECTIO	O D L CUM DEPTH	B G O R CUM ROF S ON JARS C 3-Dnil POB: 33 MAN HRS 85.00
RUN 1 RUN SHA #9 ISHA LEN SHA DES	BHA WT E SCRIPTIC ON TEXAC	9.20 PSIZE 750 WOB BIT BELOW BS0.5 N:1-Tri- Collar CO	MANL Sn # JARS Cone E	JFACT nith	F30-T	GPM	PRE	SERIAL MK4101 BESSURE BHA S/C 0000 orgrad Bi	# PBIT OPE PBIT HOLE WT RSON MAN HRS 24.00 24.00	JETS OF 16/16/16 RATIO HRS COND RT cor. 1-Dnill NEL DA R & S CA WEATH	TIONS WT Collar, 1-inte	PTG 24 BHA HRS rgral Blade COMPA	HIN DB	CUM H	PECTIO	O D L CUM DEPTH	B G O R CUM ROP S ON JARS C 3-Dnill POB: 33 MAN HRS 85.00 28.00
RUN 1 RUN 1 RUN 1 BHA # 9 CHEVRO CHEVRO CALLAW	BHA WT E BHA WT E SCRIPTIC ON TEXAC	9.20 MIZE 750 WOB BIT BELOW 850.5 N:1-Tri- Collar CO TY G	MANL Sn # JARS Cone 6	JFACT nith RPM	F30-T	GPM	PRE O. In 1-int	SERIAL MK4101 BSURE BHA/ S/C 0000 orgral Bi	# PBIT OPE PBIT HOLE WT RSONI MAN HRS 24.00 24.00 144.00	JETS OF 16/16/16 RATIO HRS COND RT cor. 1-Dnill NEL DA R & S CA WEATH	TIONS WT Coller, 1-Inte	PTG 24 BHA HRS rgral Blade COMPA	HIN DB	CUM H	PECTIO	O D L CUM DEPTH	B G O R CUM ROP S ON JARS C 3-Dnill POB: 33 MAN HRS 85.00
RUN 1 1 SHA #9 I SHA LEN SHA DESCRIPTION CONTROLLAW PATTER	BHA WT E SCRIPTIC ON TEXAC	9.20 MIZE 750 WOB BIT BELOW 850.5 N:1-Tri- Collar CO TY G	MANL Sn # JARS Cone 6	JFACT nith RPM	F30-T	GPM	PRE	SERIAL MK4101 BSURE BHA/ S/C 0000 orgral Bi	# PBIT OPE PBIT HOLE WT RSON MAN HRS 24.00 24.00	JETS OF 16/16/16 RATIO HRS COND RT cor. 1-Dnill NEL DA R & S CA WEATH	TIONS WT Collar, 1-Inte	PTG 24 BHA HRS rgral Blade COMPA	HIN DB	CUM H	PECTIO	O D L CUM DEPTH HR: 1-Drilling Jan 7 2	B G O F CUM ROF S ON JARS C 3-Dnil POB: 3: MAN HRS 85.00 28.00



Well Name; SWE WELL IN FIELD: HUNNINGT SPUD DATE: 12:5/ RIG: PATTERSON DRLG SUPRS: HACK BLANKENS RIG PHONE: 435 6 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30 14:30 18:00	ON 2000 # 5 5 SHIP 187-2197 520-0567 REP TIME: TIONS: D: 204.00 INCH	CSG 9.625 13.375 N/D BO SET CS	5,90 CSG: 7,0 MD 3,010 3,010 304 P TO SET	CASI TVD 3,010 304 SLIPS CUT OF	8,000 (R) NG TOL	LO	LNR N	MD/TVD: FOOTAG DRILL HF Est. Est+OE	Æ:	COST DH MOH 61,000	EPTH/I 662 (ft) 24 (ft) P A S DRLC CompCast 239,00	OL/DFS: HR ROP: ROPOSED FE Days +/- CompMOI 0 204,00	TD: Goel: MP H Content	8: 1/4/2002 30:00 / 24:00 8:000 (ft) TOTAL 1:601:00
FIELD: HUNNINGT SPUD DATE: 12/5/ RIG: PATTERSON DRLG SUPRS: HACK BLANKENS RIG PHONE: 435 6 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	ON 2000 # 5 5 HIP 87-2197 520-0567 REP TIME: TIONS: D: 204.00 INCII	NEXT CSG 9.625 13.375 N/D BO SET CS SAFETY DENT TYP	5,90 CSG: 7,0 MD 3,010 3,010 304 P TO SET	8.00 (ft) 00 (in) @ CASI TVD 3,010 304 SLIPS CUT OF	8.000 (ft) NG TOL		N	FOOTAG DRILL HE Est. Est. Est.OE	DH Cash 1,097,000	COST DH MOH 61,000	662 (ft) 24 (ft) P A S DRLC CompCast 239,00	OL/DFS: HR ROP: ROPOSED EE Days +/- CompMOI 204,00	TD: Goal: MP H Conteng	8,000 (ft) TOTAL 1,801,00
SPUD DATE: 12/5/ RIG: PATTERSON DRLG SUPRS: HACK BLANKENS RIG PHONE: 435 6 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	2000 # 5 5 SHIP 187-2197 520-0567 REP TIME: TIONS: D: 204.00 INCII	NEXT CSG 9.625 13.375 N/D BO SET CS SAFETY DENT TYP	5,90 CSG: 7,0 MD 3,010 3,010 304 P TO SET	8.00 (ft) 00 (in) @ CASI TVD 3,010 304 SLIPS CUT OF	8.000 (ft) NG TOL		N	FOOTAG DRILL HE Est. Est. Est.OE	DH Cash 1,097,000	COST DH MOH 61,000	662 (ft) 24 (ft) P A S DRLC CompCast 239,00	OL/DFS: HR ROP: ROPOSED EE Days +/- CompMOI 204,00	TD: Goal: MP H Conteng	8,000 (ft) TOTAL 1,801,00
RIG: PATTERSON DRLG SUPRS: HACK BLANKENS RIG PHONE: 435 6 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	# 5 5 HIP	CSG 9.625 13.375 N/D BO SET CS SAFETY DENT TYP	MD 3,010 304 P TO SET	CASI TVD 3,010 304 SLIPS CUT OF	TOL F. SET OU		N	FOOTAG DRILL HE Est. Est. Est.OE	DH Cash 1,097,000	COST DH MOH 61,000	(ft) P A S DRL(CompCast 239,00	ROPOSED FE Days +/- 3 & CON CompMOI 204,00	TD: Goal: MP H Content	6,000 (ft) TOTAL 1,601,00
DRLG SUPRS: HACK BLANKENS RIG PHONE: 435 6 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	HIP 87-2197 520-0567 REP TIME: TIONS: D: 204.00 INCII IPTION:	CSG 9.625 13.375 N/D BO SET CS SAFETY DENT TYP	MD 3,010 304 P TO SET	CASI TVD 3,010 304 SLIPS CUT OF	TOL F. SET OU		N	DRILL HE	DH Cash 1,097,000	COST DH MOH 61,000	(ft) P A S DRL(CompCast 239,00	ROPOSED FE Days +/- 3 & CON CompMOI 204,00	Goal: MP H Contang 00 0	TOTAL 1,601,00
HACK BLANKENS RIG PHONE: 435 8 CELLPHONE: 903 ENGR: DALE MITCHELL CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	REP TIME: TIONS: D: 204.00 INCII	CSG 9.625 13.375 N/D BO SET CS SAFETY DENT TYP	MD 3,010 304 P TO SET	CASI TVD 3,010 304 SLIPS CUT OF	TOL F. SET OU		N	Est. Est+OE	DH Cash 1,097,000	61,000	S DRL(CompCast 239,00	6 & COI CompMOI	Goal: MP H Contang 00 0	TOTAL 1,601,00
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CURRENT OP AT PLANNED OPERA MANHRS WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	D: 204.00 INCII	N/D BO SET CS SAFETY	P TO SET	304 SLIPS CUT OF				Est+OE		1	1	,	1 '1	
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MANHES WORKE INCIDENT? NO INCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	D: 204.00 INCII	SET CS SAFETY DENT TYP	G SLIPS, MTGS AT	CUT OF				Daily	638,962 9,249				4 1	920,21
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NCIDENT? NO NCIDENT DESCR FROM TO 06:00 09:00 09:00 14:30	INCII IPTION: HRS	DENT TYP		TENDE	e				****					
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FROM TO 06:00 09:00 09:00 14:30	HRS		E:		D: 1 DAYS	SINCE	E LAS	T LTA RIG	OPER: 28	/ 28	REC: N F	/A: N GC	OVT INSP?	
FROM TO 06:00 09:00 09:00 14:30	HRS	e e s ^{ere} lega		s	AFETY C	MMEN	NTS: F	RIGGING D	DOWN & RI	G MOVE				
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FROM TO 06:00 09:00 09:00 14:30	HRS				0.0			101114	AADV					
06:00 09:00 09:00 14:30		**************************************	1	$\overline{}$				1 SUM1			e de la compansión de l	The second second		
09:00 14:30	3.00	P/NPT	CODE							SCRIPTIC	N N		16 101	
		PΥ	014	N/D	BOP, SE	T SLIF	<u> 28. C</u>	UT OFF	CASING					
14:30 18:00	5.50	PT	025	SET	OUT BO	P & C	LEAN	N MUD TA	ANKS &					
	3.50	PT	PT 014 MAKE FINAL CUT ON CASING & N/U TUBING HEAD & TEST, RIG RELEASED @ 01/03/2002						ASED @ 18	00 HOUR				
18:00 06:00	12.00	N1	001	RIG	DOWN				·		·			
7,74-18130			<u> </u>			41.155.1	200	\0F071		DAILY	OOT	070	CUM COST	29.644
TIME DEPTH	WT VI		PV/YP G					PERT						
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13:00 6,385	9.20 35			3/6	9.6/	_	.0	1.25	10.00 1		00 160	1	/ WATE	
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BHA # 9	BIT#			·			LE,	CONDI			7 Thurs	13.4	المدار البلاط	
BHA WT B	ELOW JAR	S	P/U	WT	S.	OWT		RT	WT	T	ORQUE O	N/OFF	HRS	ON JARS
											1			
BHA LENGTH:	850.55		MIN ID:		0.000			BHA HRS SINCE LAST INSPECTION:						
BHA DESCRIPTIO	N:1-Tri-Con	Bit 1-Bit :	Sub. 2-Dril	Collec.	l-interpret	Blade S	i	er 1.Dell C	oller 1-lote	mrei Blede S	tabilizar 2	L-Dall Caller	t 1.Delling les	2.Dell
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CALLAWAY SAFET	ΓY				1	24.0	00	VETCO C					1	12.00
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	011 6 00	NEAD MIS	SEG GAE	ETV ME	ETING W/		DEWIC	MAAL L		113			<u>·</u>	
NO ACCIDENTS S			JEJ, JAF		- 1 114CD 441	ALL Ch	-EW3	•						
NO ACCIDENTS, S														
NO ACCIDENTS, S RIG MOVE SCHED		5/2002												
		5/2002												
		5/2002						•						



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:	Texaco North America	an Production, Inc.	Operator Account Number:	N 5700
Address:	3300 North Butler			
	city Farmington		_	
	state NM	_{zip} 87401	Phone Number:	(505) 325-4397

Well 1

SESE	23 Spud Da	17S te	1	Emery tity Assignment
ity	Spud Da	te	1	tity Assignment
F.			E	Effective Date
3	12/6/200	1	1-	7-021
	3	3 12/6/200	3 12/6/2001	3 12/6/2001 /-

Well 2

API Number	Well N	ame	QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Š	pud Da	salar - Pililia	En E	 tity Assignment Effective Date
Comments:							

Well 3

API Number	(18)	Well Name	QQ	Sec T	wp	Rng	County
Action Code	Current Ent Number			pud Date		En	 tity Assignment =ffective Date
Comments:							

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section)

t

Name (Please Print)
Signature
Engineer
Title

12/21/2001
Date

Texaco Exploration and Production Inc.
MidContinent Business Unit 11111 S. Wilcrest Houston, TX 77099
Tel 281 561 4894
kephaim@chevrontexaco.com

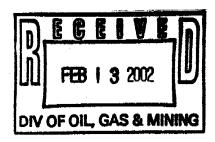
Ian M. Kephart
Production Engineer
CoalBed Methane Team

CONFIDENTIAL

ChevronTexaco

February 8, 2002

Lisha Cordova
State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801



Re: Drilling Reports

SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT

Dear Lisha:

Attached is the remainder of the daily drilling reports for the subject well. The well was spudded on 12/6/01 and reached TD on 1/4/02. The well is now in the completion phase.

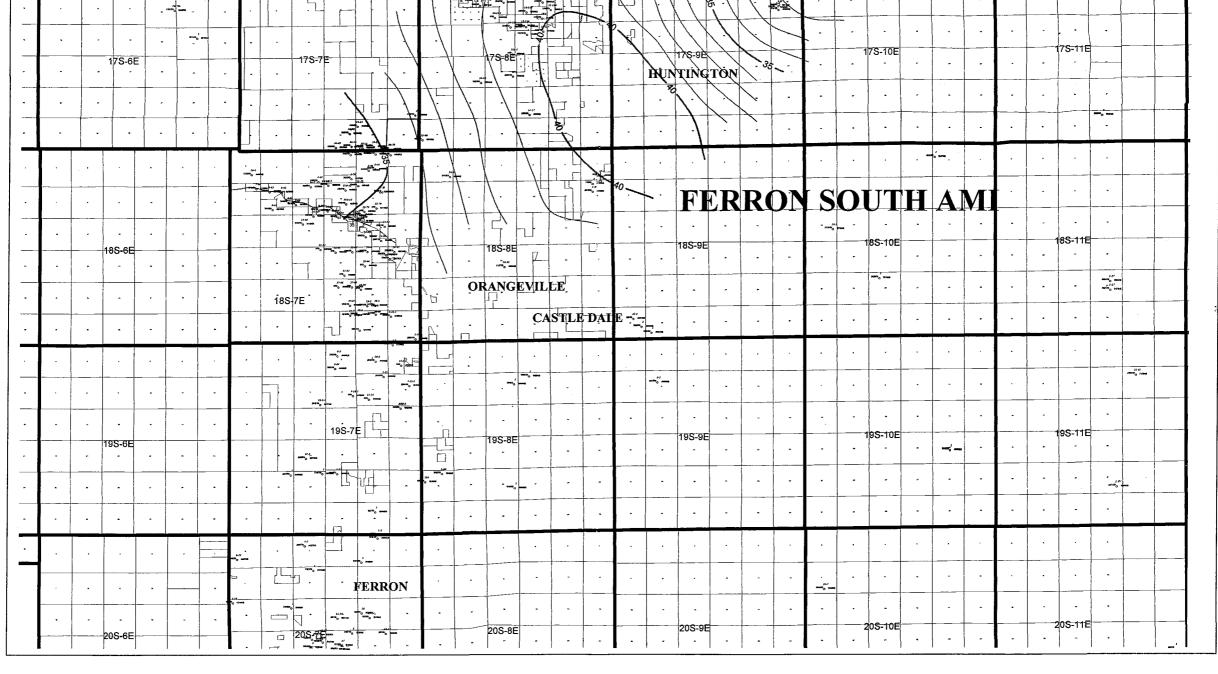
Thank you very much for your time. Please feel free to contact me at (281) 561-4894 if you have any questions.

Sincerely,

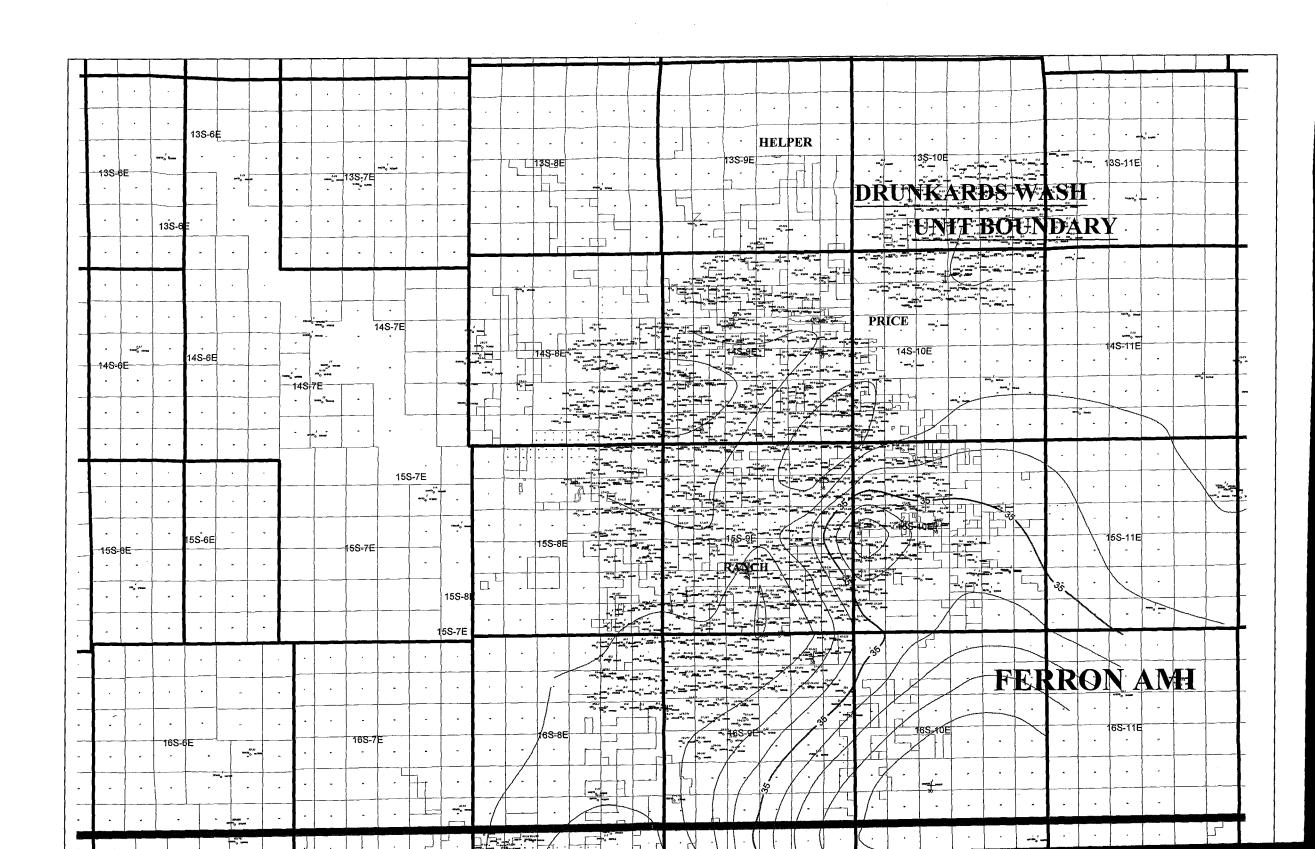
lan M. Kephart

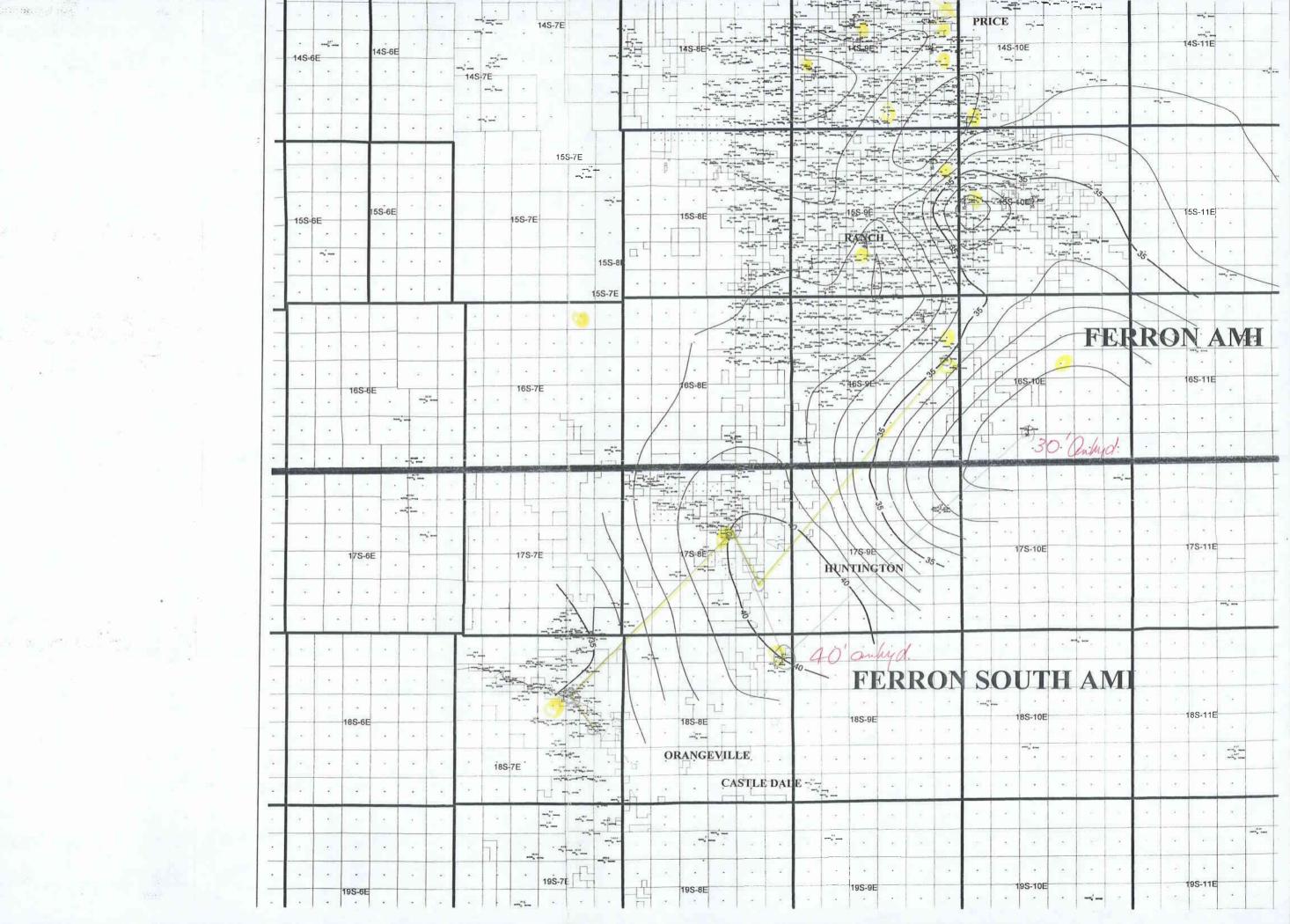
Price/Ferron Production Engineer

cc: Well file



ChevronTexaco Texaco E&P, Inc.					
	KARDS WASH-FI				
Geologist: Julia Caldaro-Baird		Date: 19 February, 2002			
	Scale: 1:192000	CI: 1 foot			







Chevron U.S.A. Production Company Mid-Continent Business Unit P.O. Box 36366 Houston, TX 77236 Phone 713 754 2000

April 9, 2002

Mr. John Baza, Associate Director of Oil and Gas Utah Department of Natural Resources Division of Oil, Gas & Mining 1594 W. North Temple St., Suite 1210 Salt Lake City, UT 84114-5801 RECEIVED

APR 1 2 2002

DIVISION OF OIL, GAS AND MINING

Dear Mr. Baza:

As you may recall from our meeting last year, we planned to combine the assets of Chevron U.S.A. Inc. ("CUSA"), by merger, and Texaco Exploration and Production Inc. ("TEPI"), by assignment, into a new entity which we referred to as "Newco LP". Along the way, additional information came to light and it was decided that this proposed corporate restructure would not be preferable. Therefore, CUSA and TEPI have continued to operate as separate entities.

We are now planning a simpler restructuring process where TEPI will assign most of its assets/operatorship to CUSA effective May 1, 2002. We plan to use the existing CUSA bonds/letters of credit, operator identification numbers, etc., for the TEPI assets that will be assigned.

A task force of Land, Regulatory and Environmental Compliance personnel are finishing the work that was begun last year to assign TEPI's assets—using the same forms and procedures as before. We have "new faces" in this task force due to reassignments and departures. In some cases, it may be worthwhile to visit you and your staff in person where new people are involved or if we need to review/clarify your forms and procedures. Otherwise, we will endeavor to complete the work to assign TEPI's assets/operatorship to CUSA and deliver the requisite materials to you in a timely manner.

During discussions last year, our focus was on Land, Regulatory and Environmental matters. The Finance organization also desires to join in this effort. For State Tax, Royalty and Regulatory reporting purposes (applicable to production from May 2002 through December 2002), we intend to generate two reports and two payments.



However, the reporting company name and identification number will be CUSA's. Beginning with January 2003 production and thereafter, we will issue only one CUSA report and payment. We trust this plan meets with your approval. Any questions or comments should be directed to Rick Dunlavy (telephone 713/752-7411, rickdunlavy@chevrontexaco.com).

We appreciate the cooperation and guidance you provided us in the past, and we look forward to bringing these efforts to a conclusion.

Respectfully submitted,

Don R. Sellars

Sr. Environmental Specialist

Chevron U.S.A. Inc.
Midcontinent Business Unit
Ferron Operations
Emery County, Utah

Name / Operatorship Change Texaco Exploration and Production Inc. to

Chevron U.S.A. Inc. Disposal Wells

Account						Lease	Well Status	Well Type	Fed or
Number	Section	Township	Range	API Number	Well Name	Туре	Main	Main	State
N5700	15	170S	080E	4301530490	SWD 4	4	APD	WD	FEE
N5700	11	180S	070E	4301530303	SWD 3	4	I	WD	FEE _
N5700	14	180S	070E	4301530323	SWD 2	4	Α	WD	FEE
N5700	24	180S	070E	4301530272	SWD 1	4	Α	WD	FEE
N5700	23	18S	080E	4301530510	SWD 5	4	I	WD	FEE

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

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Chevron U.S.A. Inc. 3. ALORGES OF OPERATOR P.O. Box 38366 CITY Houston SIAIE TX 20 77236 PROVE NAMESE PROTAGES AT SURFACE SEE Attached List of Wells COUNTY Emery GROTING RECTION OF WELL 11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 12 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 13 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 14 COATION OF WELL 15 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 15 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 16 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA 17 TYPE OF ACTION 16 CHECK APPROPRIATE CURRENT FORMATION 17 PROTECTION 18 CHECK APPROPRIATE CURRENT FORMATION 18 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK APPROPRIATE CURRENT FORMATION 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 10 CHANGE TUBING 11 CHECK APPROPRIATE CURRENT FORMATION 11 CHECK APPROPRIATE CURRENT FORMATION 12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all perified details including dates, depths, volumes, stc. 12 CHECK APPROPRIATE COUNTY, UIAN. These Wells will be protected by the following surety bonds: 13 CHECK APPROPRIATE COUNTY, UIAN. These Wells will be protected by the following surety bonds: 14 CHANGE WELLSTRUS 15 CHECK APPROPRIATE CURRENT FORMATION 16 CHANGE WELLSTRUS 17 CHECK APPROPRIATE CURRENT FORMATION 18 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK APPROPRIATE CURRENT FORMATION 19 CHANGE WELLSTRUS 10 CHANGE WELLSTRUS 10 CHANGE WELLSTRUS 10 CHANGE WELLSTRUS 10 CHECK APPROPRIATE CURRENT FORMATION 18 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK APPROPRIATE CURRENT FORMATION 19 CHECK AP	1. T	YPE OF WELL OIL WELL		GAS WELL	OTHER (Ореі	rator Nar	ne Change	i "		
3 ADDRESS OF DEPARTOR. P.O. BOX 38366 OITY HOUSTON STATE TX 20 77236 (281) 561-3443 10. FIELD AND POOL, OR WILDCATE. POOT AGE AT SURPACE. SEE Attached List of Wells COUNTY. Emery STATE UTAH 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF ACTION NOTICE OF INTENT (SUMERS & DOSEAND A LITER CARIND) Approximate date work will start: CHANGE TO PREVIOUS PLANS CHANGE TO PREVIOUS PLANS CHANGE TO PREVIOUS PLANS CHANGE TO PREVIOUS PLANS CHANGE TREND CHANGE TREND CHANGE TREND CHANGE WELL STATUS CHANGE						9.53		24153	9.	APIN	UMBER:
P.O. BOX 36366 I. LOCATION OF WELL I. LOCATION OF WELL OTRIVOTR. SECTION. TOWNSHIP. RANGE, MERIDIAN II. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA TYPE OF SUBMISSION IVPE OF ACTION NOTICE OF INTENT (Submits in Duplean) Approximate date work with size: CASING REPAIR CHANGE TURING Approximate date work with size: CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE TURING CHANGE WELL TATUS PROQUETION WELL SITE COMMINICLE PRODUCING FORMATIONS RECLAMATION OF WELL SITE COMMINICLE PRODUCING FORMATIONS 12. DESCRIBE PROPOSED OR COMPLETE DOPERATIONS. Clearly show all pertitient details including dates, depths, volumes, etc. Effective May 1, 2002, Chevron U.S.A. Inc. is the new operator of the attached list of subject wells and leases that were previously operated by Texaco Exploration and Production inc. The subject wells are located North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville and North of Huntington, Emery County, Utah. These Wells will be protected by the following successed North of Orangeville Association of Production Inc. MAY § 6 2002 DIVISION OF OIL					"	X.	por Francis de				
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Mr. 1 20 2002		_ Allen G		Robinson	·		· · · · · ·	Attornosa	Tn - F2/		· · · · · · · · · · · · · · · · · · ·
SIGNATURE Uffus Columbia DATE April 30, 2002	NAM	E (PLEASE PRIVIT)	ن خ	A		• • • • • • • • • • • • • • • • • • • •	TITL	E PRODUKTY.	III I'dl		
	SIGN	HATURE Uffle S	لع	deus .			DATE	April 30,	2002		

(This space for State use only)

OPERATOR CHANGE WORKSHEET

ROUTING 1. GLH

_	
	CDW
	FILE

Change of Operator (Well Sold)

The operator of the well(s) listed below has changed, effective:

Designation of Agent

Operator Name Change

X Merger

05-01-2002

FROM: (Old Operator):		TO: (New O ₁	perator):				
TEXACO EXPLORATION & PRODUCTION INC]	CHEVRON US	SA INC				
Address: 3300 NORTH BUTLER, SUITE 100		Address: P O E	OX 36366	****			
FARMINGTON, NM 87401	-	HOUSTON, TX 79702					
Phone: 1-(505)-325-4397	7	Phone: 1-(915)					
Account No. N5700	1	Account No.					
CA NO.	•	Unit:					
WELL(S)							
NAME	SEC TWN RNG/7	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS	
SWD 5		43-015-30510	13403	FEE	SWD	I	
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OPERATOR CHANGES DOCUMENTATION Enter date after each listed item is completed 1. (R649-8-10) Sundry or legal documentation was received	from the FOR	RMER operator	on:	05/06/2002	2_		
2. (R649-8-10) Sundry or legal documentation was received	from the NEV	V operator on:	04/12/200	2			
3. The new company has been checked through the Departn	nent of Comn	nerce, Division	of Corpora	tions Datab	oase on:	08/01/2002	
4. Is the new operator registered in the State of Utah:	YES	_Business Numl	per:	564408-014	<u>43</u>		
5. If NO , the operator was contacted contacted on:	N/A	-					
6. (R649-9-2) Waste Management Plan received on:	IN PLACE	-					
6. Federal and Indian Lease Wells: The BLM and or operator change for all wells listed on Federal or Indian		has approved N/A	the merge	er, name c	hange,		

7.	Federal and Indian Units: The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8.	Federal and Indian Communization Agreements ("CA"): The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9.	Underground Injection Control ("UIC") The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 08/05/2002
D.	ATA ENTRY:
l.	Changes entered in the Oil and Gas Database on: 08/01/2002
2.	Changes have been entered on the Monthly Operator Change Spread Sheet on: 08/01/2002
3.	Bond information entered in RBDMS on: N/A
4.	Fee wells attached to bond in RBDMS on: N/A
ST 1.	State well(s) covered by Bond Number: N/A N/A
FI 1.	EDERAL WELL(S) BOND VERIFICATION: Federal well(s) covered by Bond Number: N/A
ÍΝ	DIAN WELL(S) BOND VERIFICATION:
l.	Indian well(s) covered by Bond Number: N/A
	EE WELL(S) BOND VERIFICATION: (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 103521627-0018
	The FORMER operator has requested a release of liability from their bond on: N/A The Division sent response by letter on: N/A
	EASE INTEREST OWNER NOTIFICATION: (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 08/01/2002
CC	DMMENTS:

MidContinent Business Um North America Upstream 11111 South Wilcrest Dr. Houston, TX 77099 (281) 561-4894 (281) 561-3418 kephaim@chevrontexaco ian Kephart Production Engineer/CBM Team

CONFIDENTIAL

ChevronTexaco

May 15, 2002

Carol Daniels
State of Utah Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
P.O. Box 145801
Salt Lake City, Utah 84114-5801

Re: <u>UDOGM Form 9-Completion Report</u>

SWD #5; 101' FSL, 1108' FEL, Sec. 23, Twn. 17S, 8E; Emery County, UT

Dear Carol:

Attached is the UDOGM Form 9 for the subject well. The well is currently shut-in as we are preparing our UIC permit for injection.

Thank you very much for your time. Please feel free to contact me at (281) 561-4894 if you have any questions.

Sincerely,

Ian M. Kephart

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STATE OF UTAH AMENDED REPORT FORM 8 DEPARTMENT OF NATURAL RESOURCES (highlight changes) DIVISION OF OIL, GAS AND MINING 5. LEASE DESIGNATION AND SERIAL NUMBER: FEE 6. IF INDIAN, ALLOTTEE OR TRIBE NAME WELL COMPLETION OR RECOMPLETION REPORT AND LOG 1a. TYPE OF WELL: 7. UNIT or CA AGREEMENT NAME OTHER SWD NA b. TYPE OF WORK: 8. WELL NAME and NUMBER: HORIZ. LATS. WELL 🗹 RE-ENTRY DIFF. RESVR. SWD #5 OTHER 2. NAME OF OPERATOR 9. API NUMBER: CHEVRONTEXACO EXPLORATON AND PRODUCTION COMPANY 4301530510 3. ADDRESS OF OPERATOR: PHONE NUMBER: 10 FIELD AND POOL, OR WILDCAT 11111 S. WILCREST CITY HOUSTON STATE TX ZIP 77099 (281) 561-4894 **Buzzard Bench** 4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 101' FSL; 1108' FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23 17S 8E AT TOP PRODUCING INTERVAL REPORTED BELOW: SAME AS SURFACE 12. COUNTY AT TOTAL DEPTH: SAME AS SURFACE UTAH **EMERY** 14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: 17. ELEVATIONS (DF, RKB, RT, GL): 12/6/2001 ABANDONED READY TO PRODUCE 1/1/2002 3/7/2002 5893' GR; 5910' KB 19. PLUG BACK T.D.: MD 6,910 18. TOTAL DEPTH: MD 7.000 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH BRIDGE PLUG SET: TVD 7,000 TVD 6,910 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) GR/ARRAY INDUCTION/COMPENSATED NEUTRON/TRIPLE WAS WELL CORED? NO 🔽 YES (Submit analysis) WAS DST RUN? NO 🔽 YES (Submit report) DETECTOR DENSITY/ULTRA SONIC IMAGER DIRECTIONAL SURVEY? NO 🔽 YES (Submit copy) 24. CASING AND LINER RECORD (Report all strings set in well) STAGE CEMENTER DEPTH CEMENT TYPE & SLURRY VOLUME (BBL) HOLE SIZE SIZE/GRADE WEIGHT (#/ft.) TOP (MD) BOTTOM (MD) CEMENT TOP ** AMOUNT PULLED NO. OF SACKS 17 1/2" 133/8 F-25 48# 0 305 G 520 CIR 12 1/4" 9 5/8 K-55 36# 0 3,010 G 345 RFC 170 CIR 8 3/4" N-80 23# 0 7,000 G 282 CIR/USI 5,845 HILIFT 355 G 100 25. TUBING RECORD SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) 4 1/2" 5.972 5,972 26. PRODUCING INTERVALS 27. PERFORATION RECORD FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES PERFORATION STATUS (A) NAVAJO 5.994 5,994 6,374 6.374 5.994 6,134 .45 548 Open Squeezed (B) 6,171 6.362 .45 724 Open 1 Squeezed (C) WINGATE 6.514 6,899 6,514 6.899 6.530 6.652 45 488 **/** Open Squeezed (D) 6.677 6,690 .45 52 Open Squeezed 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 5994'-6134' Acidize w/ 6850 gals 15% HCL 6171'-6362' Acidize w/ 9100 gals 15% HCL 6530'-6690' Acidize w/ 6800 gals 15% HCL 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS: S NIR NOTCE (IDD GOOD AND AS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY Shut-in OTHER: Mud log CORE ANALYSIS

MAY 2 0 2002

(5/2000)

(CONTINUED ON BACK)



31. INITIAL PR	ODUCTION				IN'	TERVAL A (As sho	wn in item #	26)						
DATE FIRST PE	RODUCED:	TEST D	ATE:		HOURS TESTE	ED:	TEST PROI		OIL - BBL:	GAS – MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS	. CSG. PF	RESS. AP	GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRO RATES: L		OIL - BBL:	GAS - MCF:	WATER -	- BBL:	INTERVAL STATUS	
					_i IN ⁻	TERVAL B (As sho	wn in item #2	26)	1		•			
DATE FIRST PF	RODUCED:	TEST D	ATE:	•	HOURS TESTE	D:	TEST PROD RATES:		OIL - BBL:	GAS - MCF:	WATER -	- BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS	. CSG. PF	RESS. API	GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRO RATES: [OIL – BBL:	GAS – MCF:	WATER -	- BBL:	INTERVAL STATUS:	
	•	•	***************************************		in	TERVAL C (As sho	wn in item #2	26)	•					
DATE FIRST PR	RODUÇED:	TEST D	ATE:		HOURS TESTE	TEST PROD RATES:		OIL - BBL:	GAS – MCF:	WATER -	- BBL:	PROD. METHOD:		
CHOKE SIZE:	TBG. PRESS	. CSG. PF	CSG. PRESS. API GRAVITY		BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES:		OIL – BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS:	
				INI	TERVAL D (As sho	wn in item #2	26)	<u> </u>	!					
DATE FIRST PR	RODUCED:	TEST DA	TEST DATE:			D:	TEST PRODUCTION RATES:		OIL - BBL:	GAS MCF:	WATER -	BBL:	PROD. METHOD:	
CHOKE SIZE:	TBG. PRESS	CSG. PF	RESS. API	GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PROP RATES: [.		OIL - BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS:	
32. DISPOSITION	ON OF GAS (So	ld, Used for I	Fuel, Vented,	Etc.)						<u>'</u>				
33. SUMMARY	OF POROUS Z	ONES (Includ	le Aquifers);					34	. FORMATION	(Log) MARKERS:				
Show all importa tested, cushion u						n tests, including de	pth interval	į						
Formatio	on	Top (MD)	Bottom (MD)		Descrip	otions, Contents, etc	L			Name		(!	Top Measured Depth)	
Ferron		1,600	1,900		dstone, Coa	al and Shale	!	٨	/lancos Sh	nale			0	
Navajo		5,994	6,374		dstone			1 -	Blue Gate	Shale	-	100		
Kayenta		6,374	6,514		dstone, Sha				erron			1,600		
Wingate		6,514	6,899	Sand	dstone, Sha	ale			ununk		ŀ		1,900	
			ľ						Curtis		i		3,640	
									ntrada		l		4.034	
	ľ							j -	Carmel				4,584	
				ı					Vavajo				5,994	
									Kayenta		İ		6,374	
	1			ļ				V	Vingate		1		6,514	
35. ADDITIONAL	L REMARKS (II	clude pluggi	l Ing procedur	<u> </u>										
36. I hereby cer	tify that the for	egoing and a	ttached info	mation is co	omplete and corre	ect as determined	from all avail	able recor	ds.				·····	
	_{E PRINT)} lar	Kenhar	+					Drodu	iction Eng	inoor				
	E PRINT) I GI		200	_	·		-	5/15/2		ii ieei			 .	
SIGNATURE_		<u> </u>	100	<u>~1</u>			DATE	0/10//		·.				
This report m		ittad udithir	20 days											

- completing or plugging a new well
- · drilling horizontal laterals from an existing well bore
- · recompleting to a different producing formation
- · reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests
- * ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Uar Division foll saver I Min 1594 West North Temple, Suite 1210 Box 145801 Salt Lak (A) Ujan 842082801

801-359-3940

Phone: 801-538-5340

DIVISION OF DIL. GAS AND MINING

(5/2000)

Texaco Exploration and Production Inc.
MidContinent Business Unit 11111 S. Wilcrest Houston, TX 77099
Tel 281 561 4894
kephaim@chevrontexaco.com

lan M. Kephart Production Engineer CoalBed Methane Team

ChevronTexaco

June 10, 2002

Mr. Gil Hunt State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

Subject:

Application for Injection Well - UIC Form 1

Texaco E&P Inc. Salt Water Disposal Well - SWD #5

SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hunt:

Enclosed for your review is an injection application for the captioned well. This packet includes all the information needed for the permit except for the notification of offset surface and mineral owners. This information will come under separate cover when our land research is complete. Please proceed with the 15 day public notice for this application.

If you have any questions or require additional assistance, please contact me at (281) 561-4894. Thank you.

Sincerely,

Ian M. Kephart

Enclosures

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Texaco North American Production, Inc. Salt Water Disposal Well Application SWD#5

Regulatory Compliance Record

R649-5-2-

2	Application Form 1	Attached form
2.1	Plat showing the location of well & 1/2 mile radius of exposure	Attached map
2.2	Copies of logs (radioactive & electrical)	Attached
2.3	Copy of cement bond logs	To be submitted by Schlumberger
2.4	Copies of existing logs	None found
2.5	Description of casing	Attached table/diagram
2.6	Type of fluid, source and estimated volumes / daily	Attached
2.7	Standard lab analysis of fluid Compatibility of the fluids	Attached
2.8	Proposed pressures	Attached
2.9	Evidence and data to support that the well will not initiate fractures to enter fresh water	Attached
2.10	Geological data	Attached
2.11	Review of mechanical conditions	Attached
2.12	Affidavit certifying copies have been sent to all owners, operators and surface owners within a 1/2 mile radius	To be submitted later To be submitted later

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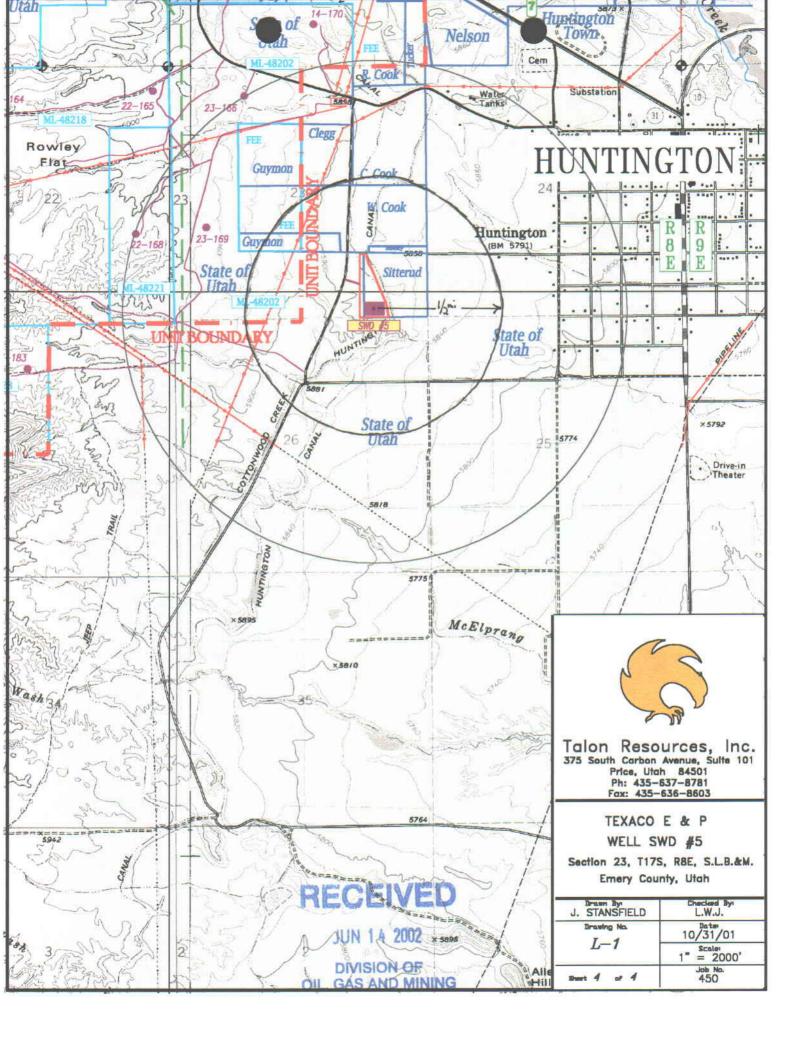
SWD #5

Requirements R649 - 5 - 2 - 2.1

Plat showing the location of the well, all abandoned or active wells within 1/2 mile radius of proposed well, and the surface owner and the operator of any lands or producing leases, respectively, within a 1/2 mile radius of the proposed injection well.

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SWD #5

Requirements R649 - 5 - 2 - 2.2

Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper, and porosity.

Attached



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SWD #5

Requirements R649 - 5 - 2 - 2.3

Copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.

To be submitted by Schlumberger



JUN 14 2002

SWD #5

Requirements R649 - 5 - 2 - 2.4

Copies of logs already on file with DOGM

Research completed; no logs found

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SWD #5

Requirements R649 - 5 - 2 - 2.5

Description of the casing and proposed testing procedure

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Proposed Casing Program

TUBULAR PROGRAM

	Hole			Casing			Connection
String Type	<u>Size</u>	<u>Depth</u>	<u>Feet</u>	<u>Diameter</u>	Weight	<u>Grade</u>	<u>Type</u>
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	305'	305'	13 3/8"	48#	H-40	LT&C
Intermediate	12 ¼"	3010'	3010'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	7000'	7000'	7"	23#	N-80	LT&C

CEMENT PROGRAM

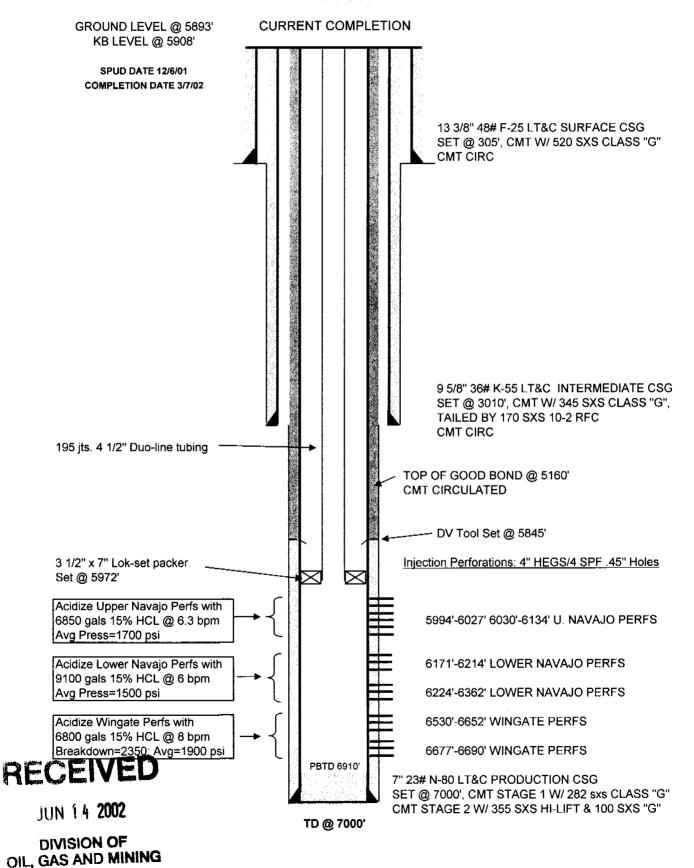
	DV	Stage	Cement	Cement	No.	Cement	Cmt	Cmt
String Type	Depth	Lead/Tail	Bottom	<u>Top</u>	Sacks	<u>Type</u>	Yield Yield	<u>Weight</u>
Surface			300'	Surface	375	G	1.15	15.8
Intermediate		Lead	2000'	Surface	345	G	1.15	14.2
		Tail	3010'	2000'	170	RFC 10-2	1.61	14.2
Production	5845'	2 nd Stage	5845'	Surface	455	Hi-lift & G	1.91	12.5
		1 st Stage	7000'	5845'	282	G	1.15	15.8

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SWD #5

SEC 23, T 17S, R 8E 101' FSL, 1108' FEL EMERY COUNTY, UT API # 43-015-30510



STATE OF UTAH DIVISION OF OIL, GAS AND MINING

APPLICATION FOR INJECTION WELL - UIC FORM 1

OPERATOR TEXACO NORTH AMERICAN PRODUCTION, INC. ADDRESS 11111 SOUTH WILCREST										
ADDRESS	HOUSTON, TX 77									
Well name and n	umber:	SWD #5	L . 1824	a.v.						
Field or Unit name	e:	Lease NoF	ee							
Well location: Q0	Q <u>SE/SE</u> section <u>23</u> to	ownship <u>17S</u> range <u>8E</u> county <u>E</u>	Emery							
Is this application	for expansion of an exi	sting project?	Yes [X]	No []						
Well the proposed	d well be used for:	Enhanced Recovery? Disposal ?	Yes [] Yes [X]							
		Storage ?	Yes []	No [X]						
Is this application	for a new well to be dri	led ?	Yes [X]	No []						
has a casing te		e well? N/A	Yes [X]	No []						
API Number: _	43-015-30510	<u>uic-296.1</u>								
Proposed injectio	n interval: from	5994' to	6690'							
Proposed maximu	um injection: rate	12,000 BWPD press	ure <u>1,750</u> psi	g						
Proposed injectio	n zone contains [] oil ,	[] gas , and/or [] fresh water w	rithin 1/2 mile of the	e well.						
IM		information as required by R64	9-5-2 should							
List of Attachmen	-		Ď, í							
I certify that this r	eport is true and comple	ete to the best of my knowledge.		\						
Name Title Phone No	lan Kephart Production Engine (281) 561-4894	Signature Date	10/02 le							
(State Use Only) Application approve Approval Date	ed by	Title								
Comments:			RECEIV	ED						

JUN 14 2002

:scalemix.xls		TEMPLATE	S FOR DOIN	G BRINE MI	XTURES														:	i
	l						Ц	Uses	Version 4 o	f Excel				Interpretat	ion of Results	; ;	1		:	
	Spreadsheet			id Amounts			E	ased on Ri	ce Universit	y Corrleati	ons			SI Satur	ration Index					1
		for Commo						of Od	do and Tom	mson				SI > 1 scalir	ng very likely		Positive value	ue maximu	m amount that	t
	File a:scatemi:													0.5 < SI < 1	scaling likely		can precipitate			
	P.J	. Shuler Cl	PTC 7/28/9	4				NOTE:	Columns V	- BH hide	len			0 < SI < 0.5 -	scaling possib	ble	Zero value -	- no precipita	tion expected	for
1	L		Ι			:			Formulas	protected	, inputs ດ	ot		SI = 0 - satu	rated, borderlin	ne		that scale		T
	centration (mg/l) of				3						: '			SI < 0 scalir	ng unlikely					
Ca, Mg, Sr, I	Ba, CI, SO4, and H	CO3, and pH		Sp	readshee	t calculate	s Saturati	on Index, S	I		i				T			SCALING O	CAPACITY (S	C)
	<u> </u>							-		<=== U	SER INPL	JTS TO LEFT		SATURATION	INDEX RES	ULTS	MAXIMUM	POSSIBLE A	MOUNT DEP	OSIT
										T		(bold entries)					(lbs/10	00 bbl)	
							All Co	ncentratio	ns in mg/l											T
Sample		ļ	Temp (F)	Press psi	Ca	Mg	Sr	Ba	CI	SO4	HCO3	рН	Si(BaSO4)	SI(SrSO4)	SI(CaSO4)	Si(CaCO3)	BaSO4	SrSO4	CaSO4	CaCC
							Ĺ.								(Gypsum)				(Gypsum)	
xample below whe	re mix two waters	together. C	Calculated so	aling tender	ncy verse	us mixing	ratio.		<u> </u>											
	Input>	Temp (F)	140	Press	3000	(psi)		 	 			-			 					
										1	1				1			-		1
ferron			140	3000	125	46	11	19	13347	5	6417	7.22	-0.19	-2.92	-3.95	1.32	0	0	0	104
SWD 5 (Nav.) -			140	3000	340	58	1	1	16245	3408	1418	7.92	1.32	-1.21	-0.74	. 1.73	1	0	0	279
Percent	Percent						-			 	-				<u> </u>			<u> </u>		
ferron	SWD 5 (Nav.)				T		1											T		†'
0	100	T	140	3000	340	58	1	1	16245	3408	1418	7.92	1.32	-1.21	-0.74	1.73	1	0	0	279
10	90		140	3000	319	57	2	3	15955	3068	1918	7.77	1.69	-0.95	-0.81	1.69	2	. 0	0	267
20	80		140	3000	297	56	3	5	15665	2727	2418	7.66	1.85	-0.82	-0.88	1.66	3	0	0	250
30	70		140	3000	276	54	4	7	15376	2387	2918	7.58	1.94	-0.74	-0.97	1.62	4	0	0	233
40	60		140	3000	254	53	5	8	15086	2047	3418	7.50	1.99	-0.70	-1.06	1.59	5	0	0	215
50	50		140	3000	233	52	6	10	14796	1707	3918	7.44	2.01	-0.70	-1.18	1.56	6	. 0	0	196
60	40		140	3000	211	51	7	12	14506	1366	4417	7.39	1.99	-0.72	-1.31	1.52	7	. 0	0	178
70	30		140	3000	190	50	8	14	14216	1026	4917	7.34	1.94	-0.77	-1.47	1.48	8	Ö	0	159
80	20	L	140	3000	168	48	9	16	13927	686	5417	7.30	1.83	-0.89	-1.69	1.43	9	0	0	141
90	10		140	3000	147	47	10	17	13637	345	5917	7.26	1.59	-1.13	-2.05	1.38	10	0	0	122
	l a		140	3000	125	46	11	19	13347	5	6417	7.22	-0.19	-2.92	-3.95	1.32	0	. 0	+	104

SWD #5

Requirements R649 - 5 - 2 - 2.6

A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.

The fluid to be injected into SWD #5 will be a composite of waters gathered from gas wells that extract water from the Ferron coal seams. These wells are located within the attached lease list.

It is estimated that up to approximately 12,000 barrels of water will be injected daily.

See Attached List of wells that could be potential water sources

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Current Huntington Unit Well List of Potential Water Sources

LEASE AND WELL#	API#	SEC	TWN	RNG
UP&L #6-102	4301530441	6	17S	8E
UP&L #6-103	4301530483	6	17S	8E
UP&L #6-104	4301530442	6	17S	8E
State of Utah "GG" 5-107	4301530479	5	17S	8E
State of Utah "AA" 7-106	4301530396	5	17S	8E
State of Utah "BB" 5-108	4301530480	5	17S	8E
State of Utah "BB" 5-109	4301530481	5	17S	8E
State of Utah "BB" 5-110	4301530482	5	17S	8E
State of Utah "BB" 8-111	4301530486	8	17S	8E
Wm S Ivie, et al "BB" 9-118	4301530443	9	17S	8E
State of Utah "BB" 9-120	4301530444	9	17S	8E
Gardner Trust, et al 16-121	4301530478	16	17S	8E
State of Utah "CC" 10-123	4301530454	10	17S	8E
State of Utah "CC" 10-124	4301530438	10	17S	8E
State of Utah "FF" 10-125	4301530458	10	17S	8E
American West Group, et al 15-	4301530484	15	17S	8E
126				
WH Leonard, et al 15-127	4301530485	15	17S	8E
State of Utah "FF" 11-129	4301530459	11	17S	8E
State of Utah "FF" 11-130	4301530462	11	17S	8E
Utah Federal "M" 6-25	4301530292	6	17S	8E
Lemmon 10-1	4301530242	10	17S	8E
State of Utah "T" 36-10	4301530268	36	16S	7E
Sate of Utah "FO" 02-188	43-015-30553	2	17S	8E
Seeley Farms 09-117	43-015-30501	9	17S	8E
Seeley Farms 08-112	43-015-30495	8	17S	8E
State of Utah "BB" 04-116	43-015-30503	4	17S	8E
State of Utah "GG" 04-115	43-015-30504	4	17S	8E
State of Utah "GG" 3-122	43-015-30-499	3	17S	8E
State of Utah "BB" 09-119	43-015-30437	9	17S	8E
State of Utah "HH" 03-133	43-015-30500	3	17S	8E
State of Utah "CC" 03-161	43-015-30552	3	17S	8E
Conover 14-171	APD not	14	17S	8E
	apprv'd		37. F	

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Malone 14-131	APD not apprv'd	14	17S	8E
State of Utah "AA" 7-105	43-015-30497	7	17S	8E
State of Utah "T" 36-100	APD not apprv'd	36	17S	7E
State of Utah 36-138	43-015-30550	36	17S	7 E
State of Utah 36-139	43-015-30530	36	17S	7E
UP&L Federal 01-101	APD not apprv'd	1	17S	7E
Utah Federal "KK" 01-140	APD not apprv'd	1	17S	7E
Utah Federal "KK" 01-141	APD not apprv'd	1	17S	7E
State of Utah "FO" 02-186	APD not apprv'd	2	17S	8E
State of Utah "BB" 08-113	43-015-30496	8	17S	8E

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SWD #5

Requirements R649 - 5 - 2 - 2.7

Standard laboratory analyses of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.

See Attached Analyses



JUN 14 2002





SINCE 19084



Member of the SQS Group (Société Générali) de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1020 HUNTINGTON, UT 84528 TEL: (435) 653-2311 FAX: (435) 653-2436

T--- T----

March 25, 2002

TEXACO NXPLORATION P.O. BOX 618 ORANGEVILLE UTAH 84537 RON WIRTH

Kind of sample Water reported to us

Sample taken at

Sample taken by TEXACO

Date sampled February II, 2002

Date received February 11, 2002

Sample identification by

TEXACO EXPLORATION

WINGATE FORMATION ID:SWD 5 -

RECEIVED 1140 SAMPLED 1100

NOTES: DIS.METALS FILTERED @ LAB

SILICON ANALYZED AT CTE DENVER

Page 1 of 2

Analysis report no. 59-23765

					Analyzed
Parameter	Result	MRL	Units	Method	Date/Time/Analyst
Acidity	4 5	.5	$mg/1$ as $CaCO_3$	D1067-92	02-14-2002 1230 DI
Alkalinity, Bicarbonate	3087	5	mg/l as HCO_3	EPA 310.1	02-14-2002 1020 DI
Alkalinity, Carbonate	116	5	mg/l as CC3	EPA 310.1	02-14-2002 1020 DI
Alkalinity, Total	2724	5		EPA 310.1	02-14-2002 IO20 DT
Anions	I.02LL		meq/l		12-25-2002 1630 \$\$
Barium, Total	2.1	0.6	mg/1	EPA 208.1	02-15-2002 1009 MK
Calcium, Total	224	1	mg/l	6PA 215.1	02-15-2002 1020 MK
Cations	1047.1		meq/l		12-25-2002 1630 SB
Chloride	35450 U	0.5	mg/l	EPA 300.0	UZ-15-ZUOZ 0853 SC
Conductivity	87800		nwyos/cw	SM2510-B	02-15-2002 1130 SC
Density	1.04		<u>;</u>		02-15-2002 1300 CV
Hardness, Total	893		mg/l as $CaCC_3$	SM2340 B	12-25-2002 1630 SB
Iron, Total	392.8	0.1	mg/l	EPA 236.1	02-15-2002 0751 MK
Magnesium, Total	ರ್ತ	ヹ	mg/1	EFR 242.1	02-15-2002 10 36 M X
Nitrogen, Ammonia	1.0	0.1	w⊈/las N .	EPA 350.3	02-19-2002 1340 SC
Nitrogen, Nitrate	<3.00	1.05	mg/las N	EPA 300.0	02-12-2002 0800 SC
Nitrogen, Nitrite	<3.00	1.05	mg/las N	EPA 300.0	02-12-2002 0800 SC
pH	8 - 53		pH units	EPA 150.1	02-11-2002 1410 DI
Potassium, Total	7 <i>66</i>	1	ਜ਼ ਰ/1 /	EFA 258.1	02-15-2002 0824 MK
Silicon	47 -0	0.05	mg/l	EPA 200.7	03-11-2002 1630 SK
Sodium, Total	23200	1	mg/l	EPA 273-1	02-15-2002 0905 MK
Solids, Total Dissolved	63404	10	mg/l	EPA 160.1	02-11-2002 1200 PI
Solids, Total Suspended	3703	5	mg/l	EPA 160.2	02-11-2002 1200 DI
Rulfate .	31 <i>55</i>	₫.5	mg/l	EPA 300.0	02-12-2002 0800 SC

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory



OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAIG iginal Watermarked For Your Protoction

TERMS AND CONDITIONS ON REVERSE

JUN 14 2002





\$509

Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO: .90. BOX 1020

HUNTINGTON, UT 84528 TEL: (435) 653-2311 FAX: (435) 653-2436

March 25, 2002

TEXACO EXPLORATION P.Q. ROX 618 ORANGEVILLE UTAH 84537 RON WIRTH

Sample identification by

TEXACO EXPLORATION

ID: SWD 5 - NAVAJO FORMATION

RECEIVED 0940

SAMPLED NONE GIVEN

reported to us

Kind of sample

Sample taken at TEXACO

Sample taken by Laine Norton

SILICON ANALYZED AT CTE DENVER

Date sampled February 21, 2002

Water

Date received February 21, 2002

Page 1 of 2

Analysis report no.

59-23772

	1	A40 TO	Porc no. 33	- 23112	
D					Analyzed
Parameter	Result	MRL	Units	Method	Date/Time/Analyst
Acidity	<5	5	mg/l as Ca	CO3 D1067-92	02-22-2002 0900 DI
Alkalinity, Bicarbonate	1418	5		CO3 EPA 310.1	02-22-2002 1030 DI
Alkalinity, Carbonate	<5	5		CO] EPA 310.1	02-22-2002 1030 DJ
Alkalinity, Total	1162	5		.CO EPA 310.1	02-22-2002 1030 DI
Anions	552.4	•	meq/l		02-21-2002 1310 SJ
Barium, Yotal	1.2	0.6	mg/l	EPA 208.1	02-25-2002 1019 MK
Calcium, Total	340	2	æg:/1	EPA 215.1	02-25-2002 1027 MK
Cations	568.5		meq/l		02-21-2002 1310 SJ
Chloride	16244.9	0.5	mq/l	EPA 300.0	02-18-2002 1023 SC
Conductivity	46200		umhos/cm	SM2510-B	02-19-2002 0830 SC
Drensity	1.01				03 04-2002 1430 DI
Hardness, Total	1088		mg/l as Ca	CO: SM2340-B	02-21-2002 1310 SJ
Iron, Total	86.3	0.1	mg/l	EPA 236.1	02-25-2002 0811 MK
Magnesium, Total	58	1	mg/1	EPA 242.1	02-25-2002 1044 MK
Nitrogen, Ammonia	3.3	0.1	mg/las N	EPA 350.3	02-19-2002 1340 SC
Nitrogen, Nitrate	<3.00	3.0	mg/las N	FPA 300.0	02-18-2002 1023 SC
Nitrogen, Nitrite	43.DD	3.0	πά/l as N	EPA 300.0	02-18-2002 1023 SC
pН	7.92		pH units	EPA 150.1	02-19-2002 0730 SC
Potassium, Total	291	1	mg/l	EPA 258.1	02-25-2002 0850 MK
Rilicon	0.56	0.05	mg/l	EPA 200.7	03-11-2002 1713 SK
Sodium, Total	12400	1	mg/l	RPA 273.1	02-25-2002 0907 MK
Solids, Total Dissolved	16128	10	mg/l	EPA 160.1	D3-18-3002 1310 DI
Solids, Total Suspended	543	-5	mg/l	EPA 160.2	02-18-2002 1350 DI
Sulfate	3408	0.5	mg/l	EPA 300.0	02-18-2002 1023 SC

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

Huntington Laboratory

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES THE s inal Watermarked For Your Protection TERMS AND CONDITIONS ON REVERSE

JUN 14 2002



COMMERCIAL TESTING & ENGINEERING CO. GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 69148 - TEL: 830-953-8300 FAX: 630-953-9308

Member of the Stas Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1020 HUNTINGTON, UT SASSE TEL: (435) 653-2311

FAX: (435) 653-2436

March 25, 2002

TEXACO EXPLORATION 32.0. BOX 618 ORANGEVILLE UTAH 84537 RON WIRTH

Sample identification by TEXACO EXPLORATION

ID:SWD 5

Kind of sample Water reported to us

RECEIVED 1140 ODII GERRARE

Sample taken at

Sample taken by TEXACO

> Date sampled February 11, 2002

Date received February 11, 2002

NOTES: DIS.METALS FILTERED @ LAB

SILICON ANALYZED AT CTE DENVER

Page 2 of 2

Analysis report no. 59 - 23765

Parameter Cation/Anion Balance

Result Units

Method

Analyzed Date/Time/Analyst

12-25-2002 1630 59

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

MEMBER

ER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES





COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 TEL: 550-953-9300 FAX: 630-953-9306

参母店舍

Member of the SGS Group (Société Générale de Surveillance)

Committed To Excellence

ADDRESS ALL CORRESPONDENCE TO: PO. BOX 1000 HUNTINGTON, UT 84528 TEL: (435) 663-2311 FAX: (435) 655-2436

March 25, 2002

TEXACO EXPLORATION F-O. BOX 618 ORANGEVILLE UTAH 84537 RON WIRTH

Sample identification by TEXACO EXPLORATION

ID:SWD 5

Kind of sample Water

reported to us

RECEIVED 0940

SAMPLED NONE GIVEN

Sample taken at TEXACO

Samble taken by Laine Norton

SILICON ANALYZED AT CTE DENVER

Date sampled February 21, 2002

Date received February 21, 2002

Page 2 of 2

59-23772

Analysis report no.

Analyzed

Parameter Result Units Date/Time/Analyst Method Cation/Amion Balance 568.5 02-21-2002 1300

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.

OVER 40 BRANCH LABORATORIES STRATEGICALLY LOCATED IN PRINCIPAL COAL MINING AREAS, TIDEWATER AND GREAT LAKES PORTS, AND RIVER LOADING FACILITIES RECEIVED nel Watermarked For Your Protection TERMS AND CONDITIONS ON REVERSE

JUN 14 2002

SWD #5

Requirements R649 - 5 - 2 - 2.8

Proposed average and maximum injection pressures.

A maximum of 12,000 barrels of water per day at a maximum pressure of 1,750 psi.

The proposed injection pressure of 1750 psi is based on the current approved injection pressure of the SWD #1 and SWD #2. This injection pressure results in a .70 psi/ft frac gradient at SWD's #1 and #2. Since the proposed injection zone in SWD #5 is similar in depth, this injection pressure will also result in an equivalent frac gradient.

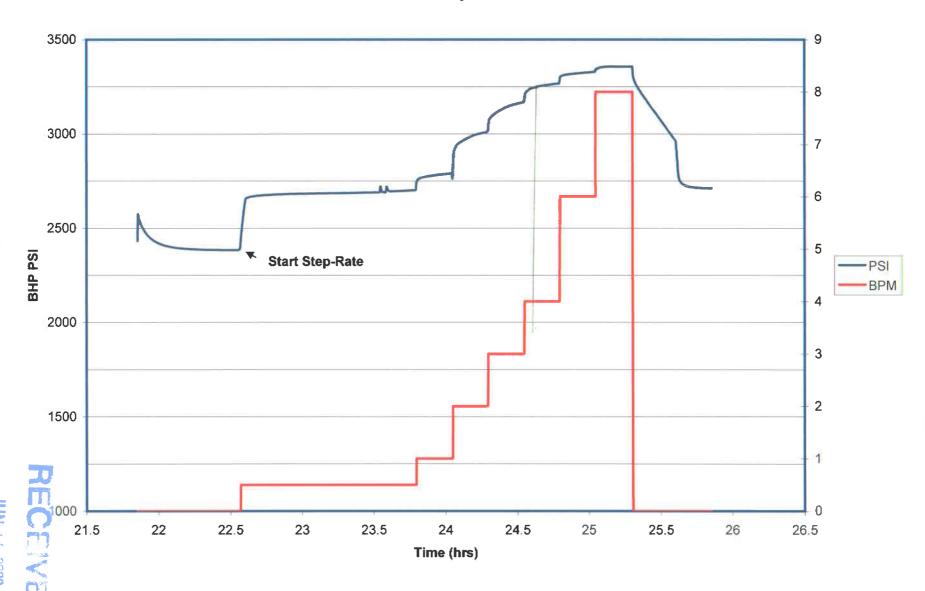
See Attached Step-Rate test

269 6.36 26419.60

RECEIVED

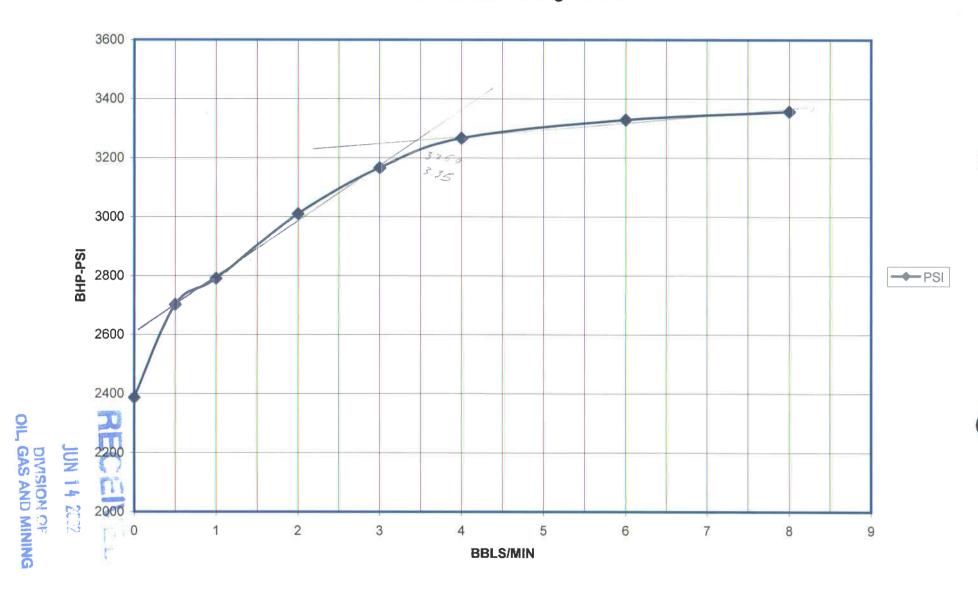
JUN 14 2002

SWD #5 Step-Rate Test



OIL, GAS AND MINING

SWD #5 Fracture Parting Pressure



SWD #5

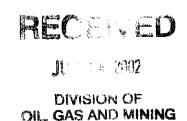
Requirements R649 - 5 - 2 - 2.9

Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.

The Navajo is overlain by 1410 feet of Carmel Formation with some shale, minor salt and anhydrite and abundant sandstone with very low porosity which undoubtedly has very low permeability. The Carmel is too tight to transmit fluid through it and any fractures that might be initiated in the Navajo will not continue up through the Carmel to the overlying formations.

Please refer to the Stim-lab Study (1997) by Mike Conway in regards to the Carmel anhydrite acting as a barrier to fracture growth in the Navajo. This Study was conducted in the Orangeville area using the existing SWD #1 and SWD #2. Chevron Texaco feels that the anhydrite within the Carmel is continuous to the North and throughout the Huntington area as evidenced by cross-sectional logs between the SWD wells in Orangeville, the SWD #4 and SWD #5 in Huntington, and the southern-most disposal well in the Drunkard's Wash Unit. (See SWD #4 permit)

The anhydrite within the Carmel Formation is 36 feet thick in SWD #5. For comparison, the anhydrite in SWD #1 is 34 feet thick, in SWD #2 it is 33 feet thick, and in the SWD #4 it is 38 feet thick.





SWD #5

Requirements R649 - 5 - 2 - 2.10

Appropriate geological data on the injection interval and confining beds, including

- (1) geological name
- (2) lithological description
- (3) thickness
- (4) depth
- (5) lateral extent
- (6) information relative to geologic structure near the proposed well which may effect the conveyance and/or storage of the injected fluids.

See Attached sheet describing Lithology descriptions



Geological Description

(1) Geological names and data of injection interval and confining beds:

Carmel Formation: (Confining Bed)

Salt, anhydrite and shale

Depth: 4584 feet Thickness: 1410 feet

Navajo Formation: (Injection interval)

Sandstone

Depth: 5994 feet Thickness: 380 feet

Kayenta Formation: (Confining Bed)

Shale and sandstone Depth: 6374 feet Thickness: 140 feet

Wingate Formation: (Injection interval)

Sandstone and shale

Depth: 6514 Thickness: 385

Chinle Formation: (Confining Bed)

Shale

Depth: 6899 Thickness: 100

Lateral extent for all 3 formations is at least 20 miles in all directions

RECEIVED

JUN 14 2002

DIVISION OF C' GAS AND MINING

SWD #5

Requirements R649 - 5 - 2 - 2.11

A review of the mechanical condition of each well within a 1/2 mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter improper intervals.

There are currently no other wells located within the 1/2 mile radius of exposure.

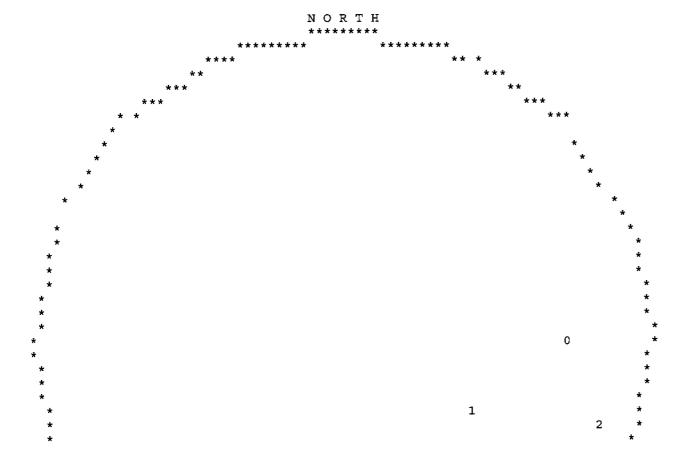
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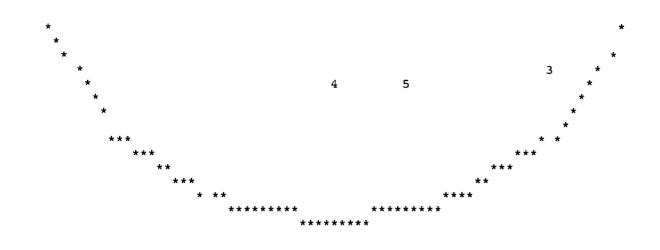
JUN 14 2002

UTAH DIVISION OF WATER RIGHTS WATER RIGHT POINT OF DIVERSION PLOT CREATED MON, JUN 24, 2002, 1:02 PM PLOT SHOWS LOCATION OF 6 POINTS OF DIVERSION

PLOT OF AN AREA WITH A RADIUS OF 5280 FEET FROM A POINT N 101 FEET, W 1108 FEET OF THE SE CORNER, SECTION 23 TOWNSHIP 17S RANGE 8E SL BASE AND MERIDIAN

PLOT SCALE IS APPROXIMATELY 1 INCH = 2000 FEET





UTAH DIVISION OF WATER RIGHTS
NWPLAT POINT OF DIVERSION LOCATION PROGRAM

MAP CHAR	WATER RIGHT	QUANTITY CFS AND/OR AC-1	T	SOURCE DESCRIPTION OF WELL INDICATED DEPTH YEAR LOG		POI ORTH	NT EA		/ERSI CNR		ESCRIPT TWN	TION RNG	B&M
0	93 1135	2.0000 WATER USE(S): IRRIGATION Guymon, Estella Geary	.00	Underground Drain	N	40	W	20	PRIO		17S DATE: ngton	8E 00/00	
1	93 1135	2.0000 WATER USE(S): IRRIGATION Guymon, Estella Geary	.00	Underground Drain	ន	1150	E	1000			17S DATE: ngton	8E 00/00	
2	93 981	1.1300 WATER USE(S): IRRIGATION McElprang, Lee	.00	Rowley Hollow 160 South 400 West	s	1320	Е	650	PRIO		17S DATE: ngton	8E 02/23	
3	93 1135	2.0000 WATER USE(S): IRRIGATION	.00	Underground Drain	N	2680	W	30	S4 PRIO	25 RITY	17S DATE:	8E 00/00	SL /18:

Guymon, Estella Geary													Huntington						
4	93 1565	.0150 WATER USE(S): Bishop, Peggy	IRRIGATION	.00 DOMESTIC	6 STOCKV		ING	1000 st State	Road	s	150	W	1170			17S DATE: can Fo	04/04	SL 4/19:	
5	93 1566	.0150 WATER USE(S): Bishop, Peggy	IRRIGATION	.00 STOCKWATE	6 ERING	100 270		1000 st State	Road	S	150	E	150			17S DATE: can Foi	•		

Michael Hebertson - RE: Interpretation from SWD #5

From:

"Kephart, Ian M" <kephaim@ChevronTexaco.com>

To:

"Michael Hebertson" < MICHAELHEBERTSON@utah.gov>

Date: 7/1/02 3:02 PM

Subject: RE: Interpretation from SWD #5

Mike,

Thanks for the log interpretation. I agree with Ethan's prognosis. When it comes to cross-over on Neutron-Density curves, our geologists typically look for an "hour glass" type shape in the cross-over, which is a better dication of gas bearing sands. This is typically looked for in our Ferron ands for instance. This where the Density and Neutron cross-over and diverge from each other. For the most part in the Upper Navajo in the SWD #5, the Density-Neutron track each other as you move through the sand.

I am currently addressing the red-letter items of the UIC analysis form.

lan

----Original Message-----

From: Michael Hebertson [mailto:MICHAELHEBERTSON@utah.gov]

Sent: Wednesday, June 26, 2002 9:24 AM

To: Kephart, lan M

Subject: Fwd: Interpretation from SWD #5

lan,

If you have any questions about this call and we can discuss your concerns.

I finally got around to making an interpretation on the logs from SWD #5. From my investigation into the curious crossover from 6000-6250, I have come up with an answer that is comprised of two parts.

The first, and simpler, part is related to the parameters from which the log was computed. Originally the logs were computed using a sandstone matrix with a matrix density of 2.68 g/cc. This value is typically used in shally sands, however, the sandstone in the interval seems quite clean. My initial reaction was to recompute the logs with a matrix density of 2.65 g/cc for a clean sand. This significantly reduced the amount of crossover between NPOR and DPHZ. However, there were still quite a few intervals where the crossover still appeared.

The second part of the interpretation consisted of looking at two things: the caliper curve (HCAL) and the density correction curve (HDRA). The sections where the crossover was excessive shared the same characteristics with respect to HCAL & HDRA. It seems that in these sections, the caliper was actually reading less than the bit size with which the hole was drilled. This means that there is some mud cake standoff. In turn, this means that the density tool measurement is affected by the mud cake - it is a very shallow measurement tool so the density measurement will be lowered, which means density porosity will be higher (which is the case). The neutron porosity tool reads deeper into the formation, therefore, it is not affected as dramatically by nominal changes in hole conditions (this measurement you can trust). The HDRA curve indicates how much processing & correction was involved to produce the final density output. Anytime this curve deviates from zero correction, it means that something is affecting the density measurement.

In conclusion, the better matrix density choice for that clean sand interval is 2.65 g/cc; in regards to the caliper, it is difficult to say exactly what is happening in the hole in that interval, but we know that the caliper is reading less than the bit size (indicating mud cake). Also, there could be some superficial fluid-filled cracks & fissures that the caliper is unable to detect - this would certainly affect the density measurement as well (i.e. it would show higher density porosity).

I hope that this sheds some light on the situation. If you need anything else, please feel free to let me know.

Take care,

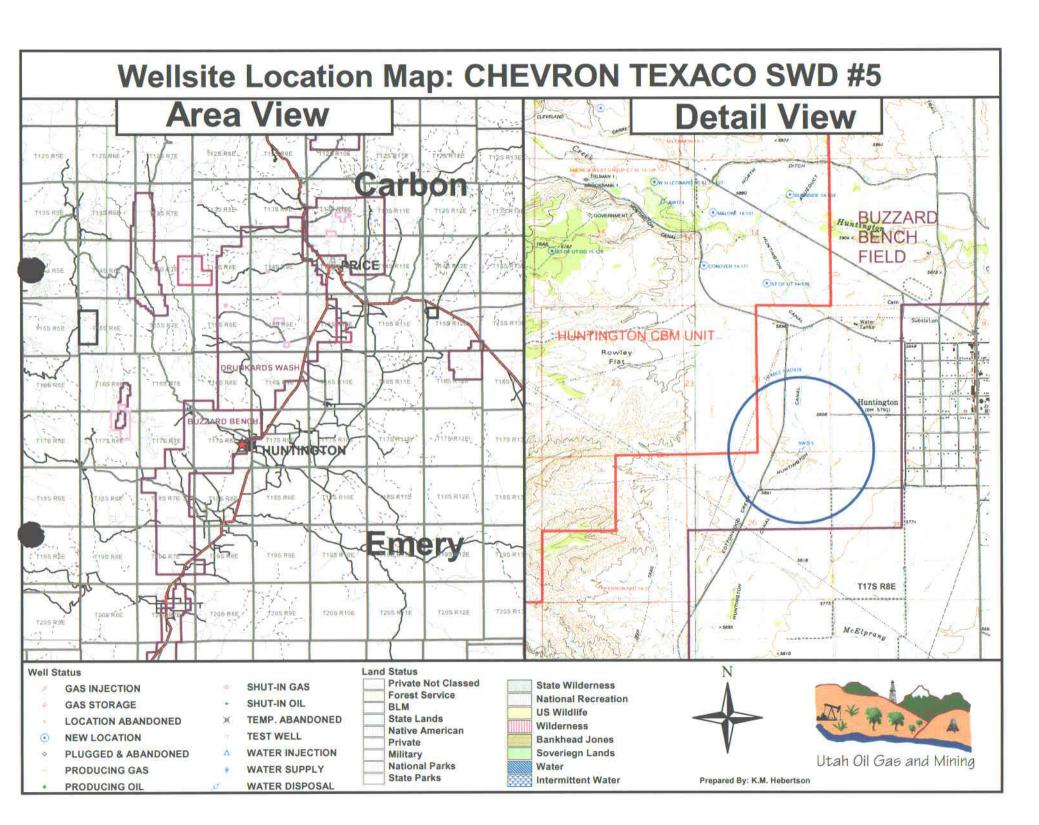
Ethan

Ethan Chabora

Field Engineer

Schlumberger Reservoir Evaluation - Wireline Office: (435) 789-3394

chael Hebert	tson - TEXT.htm	Page
	Mobile: (435) 790-1570 E-mail: echabora@vernal.oilfield.slb.com	
	E-mail: echabora@vernal.oilfield.slb.com	LL oblight 4:
		rugue.
		e Andrea
		a chianne
		20/2



Texaco Exploration and Production Inc.
MidContinent Business Unit 11111 S. Wilcrest Houston, TX 77099
Tel 281 561 4894
kephaim@chevrontexaco.com

lan M. Kephart
Production Engineer
CoalBed Methane Team

ChevronTexaco

August 1, 2002

Mr. Mike Hebertson State of Utah Department of Natural Resources Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210 Salt Lake City, Utah 84114-5801

Subject:

Application for Injection Well - UIC Form 1

RG49-5-2.2.7 Water Analysis

Texaco E&P Inc. Salt Water Disposal Well - SWD #5

SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hebertson:

Enclosed for your review is a water analysis of the Ferron water in Huntington, along with a compatibility analysis between the Ferron produced water and the Navajo water.

You can see from this analysis that the scaling tendency towards Calcium Carbonate (CaCO₃) is very likely for both waters. However, when mixed the Ferron water does not make the scaling tendency of the Navajo any higher, in fact it somewhat improves the Navajo water. There is also a scaling tendency towards Barium Sulfate in the Navajo, however the amount of this scale (lbs/1000 bbl) is insignificant compared to Calcium Carbonate and the relative size of the reservoir.

If you have any questions or require additional assistance, please contact me at (281) 561-4894. Thank you.

Sincerely,

Ian M. Kephart

Enclosures

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AUG 0 5 2002

DIVISION OF OIL, GAS AND MINING



COMMERCIAL TESTING & ENGINEERING CO.

GENERAL OFFICES: 1919 SOUTH HIGHLAND AVE., SUITE 210-B, LOMBARD, ILLINOIS 60148 - TEL: 630-963-9300 FAX: 630-963-9308

SINCE 1908*

Member of the SGS Group (Société Générale de Surveillance)

ADDRESS ALL CORRESPONDENCE TO: P.O. BOX 1020

HUNTINGTON, UT 84528 TEL: (435) 653-2311 FAX: (435) 653-2436

www.comieco.com

Sample identification by TEXACO EXPLORATION

ID: SND #4 - Huntagton Ferran

RECEIVED 0925

SAMPLED 0830

STRONTIUM TOTAL RAN AT DENVER LAB

Page 1 of 1

July 31, 2002

TEXACO EXPLORATION P.O. BOX 618 ORANGEVILLE UTAH 84537 RON WIRTH

Kind of sample Water reported to us

Sample taken at

WINGATE FORMATION

Sample taken by DAVE PARTEZ

Date sampled July 9, 2002

Date received July 9, 2002

Analysis report no. 59-24245

Parameter	Result	MRL	Units	16-44-44	Analyzed			
Acidity	157			Method	Date/Time/Analyst			
Alkalinity, Bicarbonate	6417	_		O ₃ D1067-92	07-15-2002 1315 SC			
Alkalinity, Carbonate			mg/l as HC	O3 EPA 310.1	07-09-2002 1300 SC			
Alkalinity, Total	<5		mg/1 as C	O3 BPA 310.1	07-09-2002 1300 SC			
Calcium	5260	5	mg/l as CaC	03 EPA 310.1	07-09-2002 1300 SC			
	125	1	mg/l	EPA 215.1				
Chloride	13347.3	0.5	mg/l	EPA 300.0				
Conductivity	40100	; -	umhos/cm		07-10-2002 1054 DI			
Density	1.01			SM2510-B	07-10-2000 0730 SC			
Hardness, Total			g/ml		07-10-2000 0730 SC			
Iron, Total	. 502		mg/l as CaCo	3 SM2340-B	07-18-2002 1500 SJ			
Magnesium, Total	11.6	0.1	mg/l	EPA 236.1	07-16-2002 1052 MK			
Magnesium, 10Cal	46	1	mg/l	EPA 242.1	07-16-2002 0838 MK			
Nitrogen, Ammonia	3.1	0.1	mg/las N	BPA 350.3				
Nitrogen, Nitrate	<3.00	1.05	mg/l as N		07-15-2002 0907 SC			
Nitrogen, Nitrite	<3.00	1.05	mg/las N	EPA 300.0	07-10-2002 1054 DI			
рH	7.22	2.05		BPA 300.0	07-10-2002 1054 DI			
Potassium, Total			pH units	EPA 150.1	07-09-2002 1200 SC			
Sodium, Total	74	1	mg/1	BPA 258.1	07-16-2002 0940 MK			
	11600	1	mg/l	EPA 273.1	07-16-2002 1026 MK			
Solids, Total Dissolved	26668	10	mg/l	BPA 160.1				
Solids, Total Suspended	60	5	mg/l	EPA 160.2				
Strontium	10.82	.01	mg/1		07-10-2002 0900 SC			
Sulfate	5			EPA 200.7	07-30-2002 1922 SK			
·	5	0.5	mg/l	BPA 300.0	07-10-2002 1054 DI			

Respectfully submitted, COMMERCIAL TESTING & ENGINEERING CO.



MEMBER

SWD #5 101' FSL, 1108' FEL Section 23, Township 17 South, Range 8 East Emery County, Utah

I, W. E. Herrington, Area Landman for Chevron U.S.A. Inc., hereby certify the following:

A copy of the permit application for the above captioned salt water disposal well was mailed via certified mail to all surface owners and operators located within a one-half (½) mile radius exposure of this location.

W. E. Herrington

Coalbed Methane Team

Chevron U.S.A. Inc., successor to Texaco

Exploration and Production Inc.

Subscribed and sworn before me this ___12th__ day of September, 2002.

Witness my hand and official seal.



Notary Public in and for the State of Texas

My Commission Expires:

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\$52 13 2002

DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Robert L. Morgan

Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

September 19, 2002

SENT VIA FAX and Regular Mail

Emery County Progress PO Box 589 Castle Dale, UT 84513

RE:

Notice of Agency Action - Cause No. UIC 296.1

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Earlene Russell

Executive Secretary

encl.



Michael O. Leavitt Governor Robert L. Morgan Executive Director

Executive Director

Lowell P. Braxton
Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

September 19, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune PO Box 45838 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 296.1

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

Expositive Secret

Executive Secretary

encl.



TRANSACTION REPORT

SEP-20-2002 FRI 01:30 PM

FOR: OIL, GAS & MINING

801 359 3940

DATE START	RECEIVER	TX TIME	PAGES TY	'PE NOTE	M#	DP
SEP-20 01:29 1	PM 2372776	43"	2 SE	ND OK	917	

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State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor

Robert L. Morgan Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone

(801) 359-3940 fax

(801) 538-7223 TTY

www.nr.utah.gov

September 19, 2002

SENT VIA E-MAIL AND FAX (801) 237-2776

Salt Lake Tribune PO Box 45838 Salt Lake City, UT 84145

RE: Notice of Agency Action - Cause No. UIC 296.1

Gentlemen:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please send proof of publication and billing to the Division of Oil, Gas and Mining, Suite 1210, PO Box 145801, Salt Lake City, Utah 84114-5801.

Sincerely,

. If you have an

Page 1

From:

"naclegal " <naclegal@mail.nacorp.com>

To:

<EARLENERUSSELL@utah.gov>

Date:

9/20/02 1:37PM

Subject:

Thank you. We have received your legal notice and will process it shortly. If you have an

Thank you. We have received your legal notice and will process it shortly. If you have any questions, please call 801-237-2720.

Utah Public Notice Page 1 of 2



Your online source for public notices in Utah

Public Notice

County: Salt Lake

Printed In: Salt Lake Tribune **Printed On:** 2002/09/25

Return to Found List New Search

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Public Notice:

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH --- 00 O00--- IN THE MATTER OF THE: NOTICE OF AGENCY APPLICATION OF TEXACO ACTION E & P FOR ADMINISTRATIVE: APPROVAL OF THE SWD #5 CAUSE NO. UIC 296.1 WELL LOCATED IN SECTION: 23, TOWNSHIP 17 SOUTH, RANGE 8 EAST, EMERY: COUNTY, UTAH, AS A CLASS II INJECTION WELL: ---ooOoo--- THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER. Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Texaco Exploration & Production for administrative approval of the SWD #5 well, located in Section 23, Township 17 South, Range 8 East, Emery County, Utah, for conversion to a Class II injection well. The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures. Selective zones in the Navajo, Kayenta, & Wingate Formations is proposed for water injection. The maximum allowable injection pressure and rate will be determined based on test information that will be submitted by Texaco. Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for this proceeding is John R. Baza, Associate Director at PO Box 145801, Salt Lake City, Utah 84114-5801, phone number (801) 538-5334. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedure rule. Protestants and/or interveners should be prepared to

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---ooOoo---

IN THE MATTER OF THE

NOTICE OF AGENCY

APPLICATION OF TEXACO E & P FOR

ACTION

ADMINISTRATIVE APPROVAL OF THE

CAUSE NO. UIC 296.1

SWD #5 WELL LOCATED IN SECTION 23, TOWNSHIP 17 SOUTH, RANGE 8

EAST, EMERY COUNTY, UTAH, AS A

CLASS II INJECTION WELL

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Dated this 18th day of September, 2001.

STATE OF UTAH

DÍVISION OF OIL, GAS & MINING

Jøhn R. Baza

Associate Director

Texaco Exploration and Production, Incorporated SWD #5 Cause No. UIC 296.1

Publication Notices were sent to the following:

Texaco E&P, Inc 3300 North Butler Street, Suite 100 Farmington, NM 87401

Emery County Progress PO Box 589 Castle Dale, UT 84513

via E-Mail and Facsimile (801) 237-2776 Salt Lake Tribune PO Box 45838 Salt Lake City, UT 84145

Moab District Office Bureau of Land Management 82 East Dogwood Moab, UT 84532

Emery County Planning 95 East Main Castle Dale, UT 84513-0417

Dan Jackson US EPA Region VIII, Suite 5000 999 18th Street Denver, CO 80202-2466

> Executive Secretary September 19, 2002

line Russell

demonstrate at the hearing how this matter affects their interests. Dated this 18th day of September, 2001. STATE OF UTAH DIVISION OF OIL, GAS & MINING /s/ John R. Baza Associate Director 8201R4SG

Public Notice ID: 1258688.HTM

Return to Found List New Search
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A public service by the member newspapers of the



From:

"NAC LEGAL" <naclegal@nacorp.com>

To:

"Earlene Russell" <EARLENERUSSELL@utah.gov>

Date:

9/20/02 2:40PM

Subject:

Re: Cause UIC 296.1

Please check your ad in Wednesday's paper.

Thank you.

---- Original Message -----

From: "Earlene Russell" <EARLENERUSSELL@utah.gov>

To: <naclegal@nacorp.com>

Sent: Friday, September 20, 2002 1:34 PM

Subject: Cause UIC 296.1

143 SOUTH MAIN ST. P.O.BOX 45838 SALT LAKE CITY, UTAH 84145 FED.TAX I.D.# 87-0217663

New paper Agency Corporation The Stalt Cake Tribune (NA) DESERET NEWS

CUSTOMER'S COPY

PROOF OF PUBLICATION

CUSTOMER NAME AND ADDRESS

DIV OF OIL-GAS & MINING
1594 W NORTH TEMP #1210
P.O. BOX 145801
SALT LAKE CITY, UT 84114

D5385340L-07

09/25/02

COPY

ACCOUNT NAME

DIV OF OIL-GAS & MINING
TELEPHONE INVOICE NUMBER

801-538-5340 TL8201R4SG1
SCHEDULE

START 09/25/02 END 09/25/02
CUST. REF. NO.

RECEIVED

OCT 0 3 2002

DIVISION OF CAS AND MINING

BEFOI	E THE DIVISION OF OIL, GA
	SIZE
	59 LINES 2.00 COLUMN
TIMES	RATE
1	1.16
MISC. CHARGES	AD CHARGES
.00	136.88
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	TOTAL COST 136.88

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

---00000----

IN THE MATTER OF THE
APPLICATION OF TEXACO
E & P FOR ADMINISTRATIVE
APPROVAL OF THE SWD #5
WELL LOCATED IN SECTION
23, TOWNSHIP 17 SOUTH,
RANGE 8 EAST, EMERY
COUNTY, UTAH, AS A CLASS
I INJECTION WELL

I INJECTION WELL

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NOTICE OF AGENCY ACTION

CAUSE NO. UIC 296,

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Dated this 18th day of September, 2001.

STATE OF UTAH DIVISION OF OIL, GAS & MINING

/s/ John R. Baza Associate Director

8201R4SG

824 West Big Mountain Drive Taylorsville, Utah 84123 My Commission Expires January 23, 2006 State of Utah

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKKEEPER, I CERTI ADVERTISEMENT OF BEFORE THE DIVISION OF OIL, GADIV OF OIL-GAS & MINING WAS PUBLISHED BY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH.

PUBLISHED ON

SIGNATURE

START 09/25/02

0 10-100

DATE ___09/25/02

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"
PLEASE PAY FROM BILLING STATEMENT.

END

09/25/02

Fund	Agency	Low Org	Approp Unit	Object	Mine Activity	Grant Catagory	Project
100	56 0	2827	REC	6131		GEDQ	NUADZOIG

STATE OF UTAH)

SS.

County of Emery,)

I, Ken Larson, on oath, say that I am the Publisher of the Emery County Progress, a weekly newspaper of general circulation, published at Castle Dale, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue of such newspaper for 1 (One) consecutive issues, and that the first publication was on the 1st day of October, 2002 and that the last publication of such notice was in the issue of such newspaper dated the 1st day of October, 2002.

Ken G Larson - Publisher

Ken G. Larron

Subscribed and sworn to before me this 1st day of October, 2002.

Notary Public My commission expires January

Linda Stayn

10, 2003 Residing at Price, Utah

Publication fee, \$73.06



NOTICE OF AGENCY ACTION CAUSE NO. UIC 296.1

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES STATE OF UTAH

IN THE MATTER OF THE
APPLICATION OF TEXACO E & P FOR
ADMINISTRATIVE APPROVAL OF THE
SWD #5 WELL LOCATED IN SECTION
23, TOWNSHIP 17 SOUTH, RANGE 8,
EAST, EMERY COUNTY, UTAH, AS A
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Selective zones in the Navajo, Kayenta, & Wingate Formations is proposed for water injection. The maximum allowable injection pressure and rate will be determined based on test information that will be submitted by Texaco.

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Dated this 18th day of September, 2002.

STATE OF UTAH DIVISION OF OIL, GAS & MINING -s-John R. Baza' Associate Director

Published in the Emery Country Progress October 1, 2002.

RECEIVED

OCT 0 4 2002

DIVISION OF OIL, GAS AND MINING

AFFIDAVIT OF PUBLICATION

STATE OF UTAH)

SS.

County of Emery,)

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Ken G Larson - Publisher

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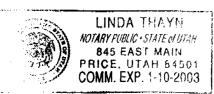
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Dated this 18th day of September, 2002,

STATE OF UTAH DIVISION OF OIL, GAS & MINING -s-John R. Baza Associate Director

Published in the Emery Country Progress October 1, 2002.

Publication fee, \$73.06



Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY

RECEIVED

OCT 0 4 2002

DIVISION OF OIL, GAS AND MINING

DIVISION OF OIL, GAS AND MINING UNDERGROUND INJECTION CONTROL PROGRAM

PERMIT STATEMENT OF BASIS

Applicant: Chevron USA, Inc. Well: SWD #5

Location: T17S, R8E, S23, Emery Co., UT **API**: 4301530510

Ownership Issues:

The well is located on Fee surface and mineral estates. An affidavit of notification of operators, owners and surface owners within a half-mile radius has been provided.

Well Integrity:

Description of the Casings and Cement:

CASING PROGRAM

String Type	Hole Size	<u>Depth</u>	<u>Feet</u>	Casing Diameter	<u>Weight</u>	<u>Grade</u>	Connection Type
Conductor	26"	40'	40'	20"			BT&C
Surface	17 1/2"	304'	304'	13 3/8"	48#	H-40	LT&C
Intermediate	12 ¼"	3010'	3010'	9 5/8"	36#	K-55	LT&C
Production	8 3/4"	7000'	7000'	7"	23#	N-80	LT&C

CEMENT PROGRAM

String Type	DV Depth	Stage	Cement	Cement Top	Number	Cement Type	Cement	Cement Weight
		Lead/Tail	<u>Bottom</u>		<u>Sacks</u>		<u>Yield</u>	
Surface			304'	Surface	375	G	1.15	15.8
Intermediate		Lead	2000'	Surface	345	G	1.15	14.2
		Tail	3010'	2000'	170	RFC 10-2	1.16	14.2
Production	5845'	2 nd Stage	5845'	Surface	455	Hi-Lift-G	1.91	12.5
		1 st Stage	7000'	5845'	282	G	1.15	15.8

The UltraSonic Imager USI Log was not run with the casing under pressure, and no conventional Cement Bond Log was run. An examination of the referenced USI log revealed that the upper confining layers of Anhydrite in the well had generally been well cemented (well in excess of 90%) for nearly 300 feet above the injection

perforations, including the entire Carmel Formation. The casing is also acceptably cemented for more than 120 feet below the bottom perforation of the injection zone. This should be adequate to prevent any upward or downward migration of fluid between the 7-inch casing and the borehole.

The 7-inch production casing was perforated in the Navajo Sandstone, Kayenta Formation and Wingate Sandstone, in a gross interval from 5994 feet to 6690 feet and a Step Rate injection test was run.

Ground Water Protection:

Moderate quality ground water will probably be encountered in the unconfined Quaternary alluvium aquifer along Huntington Creek, which flows adjacent to the location. Below this is the Blue Gate Shale Member, of the Mancos Shale. The conductor, surface and intermediate casings have all been set and cemented in place and will adequately protect the shallow alluvial sediments and any possible aquifer. Cement was circulated back to surface for all the casing strings. Other subsurface water is unlikely between the surface alluvium and the Cretaceous-age Ferron Sandstone Member of the Mancos Shale.

The Ferron Sandstone Member, including the associated coal seams provides the source water that will be injected in this well. The Ferron Sandstone is found at 1,883 feet, Total Depth, in the SWD #4 well. Injection water from 42 listed potential source wells will be collected and transferred to the injection site. Analysis of a composite of produced waters, currently being injected, from Chevron's nearby Huntington area coalbed methane production wells, has revealed Total Dissolved Solids levels of 26,668 milligrams per liter.

The Navajo Sandstone in the SWD #5 provided water samples which tested at 16,128 milligrams per liter Total Dissolved Solids, as measured by an independent

laboratory. Water from the Wingate Sandstone was tested as containing 63,404 milligrams per liter of Total Dissolved Solids. Testing was conducted on the water samples on February 11, 2002, by the local (Huntington, UT) laboratories of Commercial Testing & Engineering Company.

The Navajo Sandstone is a known fresh water aquifer at many locations in the state. In the San Rafael Swell area, the quality of Navajo Sandstone ground water is generally best near the outcrop and recharge areas, becoming poorer with increased depth and distance from recharge [Utah State Department of Natural Resources (DNR) Technical Publication #78]. This premise has been supported by test results on samples taken from the subject well and other disposal wells in the field. Injection of produced water from the Ferron Formation will result in the dilution and mixing of the more saline Navajo Formation waters. The distance to the Navajo outcrop from this location is over 16 miles to the southeast. Analysis of samples of injection zone produced waters from the SWD #5 for scaling tendencies have been filed, however the area has not had compatibility problems that cannot be treated.

The proposed operation is expected to have little effect on the overall hydrology of the aquifer because of its great extent in comparison with the volume of fluid that will likely be injected over time. According to DNR Technical Publication #78, the Navajo Sandstone alone contains approximately 94,000,000 acre-feet of water in transient storage. Injection at a rate of 12,000 barrels per day for 10 years would result in the injection of approximately 6,775 acre-feet of produced water. This equates to about 0.007% of the water already in storage in the Navajo Sandstone.

During a step rate injection test conducted by Chevron USA, Inc on the SWD #5 well the apparent formation parting pressure was measured at approximately 3,250 psia. This was measured while injecting at a rate of about 3.3 barrels per minute or

about 4,752 barrels per day. The operator has requested a rate of 12,000 BPD and a maximum injection pressure of 1,750 psig. The proposed maximum injection pressure is below the measured formation parting pressure.

Several reports, which have been prepared by Tesseract Corporation and Stim-Lab, document that fracture propagation occurs in a downward direction in the proposed injection zones. This interval is confined by several impermeable Carmel Formation anhydrite intervals overlying the Navajo Sandstone. These anhydrites make up a structurally plastic seal, which attenuates the upward propagation of fractures, forming the upper bounding beds of the injection zone. The step rate test indicates that the operator could inject the target zones with surface pressures approaching 3,250 psia without causing a breach in the anhydrite confining beds. It is also concluded from the UltraSonic Imager USI Log that the cement coverage through these zones is good

After reviewing the application and documentation submitted by Chevron USA, Inc, I find that the injection of Ferron Sandstone produced waters into the proposed zones at the SWD #5 location is likely to result in insignificant dilution and mixing with saline waters present in the target injection zones. After injection ceases, increased pressure about the wellbore will abate over time. It is therefore to be concluded that no long term negative surficial or ground water impacts are anticipated resultant of the proposed injection operation. Saline Ferron Sandstone produced waters will be safely sequestered in deeply buried, extensive and geologically-sealed aquifers containing ground water which is already higher in Total Dissolved Solids than USDW standards.

Oil/Gas & Other Mineral Resources Protection:

The Ferron coal/gas zone is protected by casings and cements, which have been

considered in the Well Integrity portion of this report. No other known potentially producible mineral or hydrocarbon zones were observed in the well. The injection zone is isolated over 4,300 feet below the productive interval of the Ferron Sandstone and good to excellent cement bond covers a sufficient length of hole to protect the shallower producing strata.

The well records of the Division of Oil, Gas and Mining, and State Water Rights, document other producing Gas, Oil, or Water wells within the half mile area of review of the proposed disposal well.

Bonding:

Chevron USA, Inc. has an \$80,000 surety bond in place, which ensures plugging of this well.

Actions Taken and Further Approvals Needed:

Notice of this application was published in the Salt Lake Tribune and the Emery County Progress (Castle Dale, UT). In addition, copies of the notice were provided to the EPA, BLM (Moab, UT), Emery County Planning, and Chevron USA, Inc. The notice stated the lately- amended proposed interval for injection to be selective zones in the Navajo Sandstone, Kayenta Formation, and Wingate Sandstone. The actual gross perforated interval descends from \$551 feet to \$2,186 feet.

A properly designed and constructed injection well, combined with periodic mechanical integrity tests, poses no threat to fresh or useable groundwater supplies. The operator will need to provide proof of mechanical integrity before a permit will be issued. In addition, the operator must have an analysis made of a representative Ferron Member composite produced water sample from the

Huntington area, reasonably soon after this may be easily accomplished. The Division staff recommends approval of this application contingent upon no additional or unforeseen information being presented which is relevant to this analysis or modifies the data presented herein.

Reviewer(s): K. Michael Hebertson

Date: 21 October, 2002

Michael O. Leavitt Governor Robert L. Morgan Executive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

October 23, 2002

Chevron USA, Inc. PO Box 618 Orangeville UT 84537

Re: Application for Class II Injection Permit, SWD #5 Well, Section 23, Township 17 South, Range 8 East, Emery County, Utah

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

- 1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
- 2. Conformance with all conditions and requirements of the complete application submitted by Chevron USA, Inc.
- 3. A Mechanical Integrity Test of the wellbore under static operating conditions.

If you have any questions regarding this approval or the necessary requirements, please contact Michael Hebertson at (801) 538-5333.

7

John R. Baza Associate Director

KMH/er

cc: Dan Jackson, EPA

Emery County Commission

Bureau of Land Management, Moab Field Office



Michael O. Leavitt Governor Robert L. Morgan Executive Director Lowell P. Braxton Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Salt Lake City, Utah 84114-5801 (801) 538-5340 telephone (801) 359-3940 fax (801) 538-7223 TTY www.nr.utah.gov

UNDERGROUND INJECTION CONTROL PERMIT

Cause No. UIC-296.1

Operator:

Chevron USA, Inc.

Wells:

SWD #5

Location:

Section 23, Township 17 South, Range 8 East,

County: Emery

API No.:

43-015-30510

Well Type:

Disposal

Stipulations of Permit Approval

- 1. Approval for conversion to Injection Well issued on October 23, 2002.
- Maximum Allowable Injection Pressure: 1,750 psig 2.
- 3. Maximum Allowable Injection Rate: 4,752 BWPD or restricted by pressure limitation.
- 4. Injection Interval: 5,994 feet to 6,690 feet (Navajo Sandstone, Kayenta Formation and Wingate Sandstone)

Approved by:

John R.

Associate Director

KMH/er

Dan Jackson, Environmental Protection Agency Bureau of Land Management, Moab Field Office

Emery County Planning



Texaco Exploration and Production Inc.
MidContinent Business Unit 11111 S. Wilcrest Houston, TX 77099
Tel 281 561 4894
kephaim@chevrontexaco.com

lan M. Kephart CoalBed Methane Team

ChevronTexaco

November 11, 2002

Mr. Mike Hebertson
State of Utah
Department of Natural Resources
Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Salt Lake City, Utah 84114-5801

Subject:

Application for Class II Injection Permit UIC—296.1

Chevron, USA. Salt Water Disposal Well - SWD #5

SE/SE of Section 23, Township 17S, Range 8E, Emery County, Utah

Dear Mr. Hebertson:

Thank you for the approval of our injection permit for the SWD #5. This letter is a follow up to our phone conversation on Friday, November 8, 2002. As per our conversation it is our understanding that the UIC permit (Cause # UIC-296.1) is limited only by the injection pressure of 1750 psi, and that the expected rates could be much higher and still be below the maximum 1750 psi injection pressure.

Thanks again for the approved permit. If you have any questions or concerns please call.

Sincerely,

Ian M. Kephart

RECEIVED

NOV 1 3 2002

DIVISION OF OIL, GAS AND MINING

Cc: Wellfile

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

TRANSFER OF AUTHORITY TO INJECT Well Name and Number API Number SWD 5 Permit # UIC-296.1

4301530510 Field or Unit Name

County : Emery

Buzzard Bench

QQ, Section, Township, Range: SESE

Footage: 101' FSL 1108' FEL

Location of Well

118 7E

State: UTAH

Lease Designation and Number

EFFECTIVE DATE OF TRANSFER: 8/17/2004

CURRENT OPERATOR

N0210

Company:

Chevron U.S.A. Inc.

Address:

11111 S. Wilcrest

city Houston

state Tx zip 77099

Phone:

Comments:

(281) 561-4991

Name:

Kenneth W. Jackson

Signature:

Title:

Regulatory Specialist

Date:

NEW OPERATOR

N2615

Company:

XTO ENERGY INC.

Address:

2700 Farmington Ave. Bldg K. Suite 1

city Farmington

state NM zip 87401

Phone:

(505) 324-1090

Name:

Signature:

Title: Date:

Comments:

(This space for State use only)

Transfer approved by: __

Title:

9/28/04

Comments:

STATE OF UTAH **DEPARTMENT OF NATURAL RESOURCES**

		DIVISIC		5. LEASE DESIGNATION AND SERIAL NUMBER: Various Leases					
	SUNDRY	NOT	ICES AND R	EPORTS	3 0	N WEL	LS	6. IF I	NDIAN, ALLOTTEE OR TRIBE NAME:
Do	not use this form for proposels to drill n drill horizontal le	now wells, sig	nificantly deepen existing APPLICATION FOR PER	y wells below curr	ent bo	tiom-hale de	oth, reenter plugged wells, or to	7. UN	IT or CA AGREEMENT NAME:
1. T	YPE OF WELL OIL WELL		GAS WELL			ecci propos	019.		LL NAME and NUMBER:
		ш	GAS WELL 12	OTHER					attached list
	AME OF OPERATOR:	1121	1,000						NUMBER:
	O ENERGY INC. DDRESS OF OPERATOR:	N26	/ව 						tiple
	00 Farmington Bldg K,Sui _{CIT}	Farmi	naton	E NM ZIP	R74	01	PHONE NUMBER: (505) 324-1090		ELD AND POOL, OR WILDCAT: ZZARD Bench
	OCATION OF WELL	, , , , , , , , , , , , , , , , , , , 	STAT	E ZIP		-	(000) 324-1090	- Du	EZAIO DEIIOI
F	OOTAGES AT SURFACE:							COUN	TY: Emery
a	TR/QTR, SECTION, TOWNSHIP, RAN	IGE, MERIDIA	AN:				•	STATE	: UTAH
11.	CHECK APP	SOPRIA	TE BOYES TO	INDICAT	E NI	ATURE	OF NOTICE, REP	ODT O	· ·
	TYPE OF SUBMISSION	1	TIL BOXES TO	INDICAT	<u> </u>			UKI, O	K UTHER DATA
_	THE OF SUBMISSION	 	PATE	*****	_		YPE OF ACTION		
	NOTICE OF INTENT		DIZE		닏	DEEPEN			REPERFORATE CURRENT FORMATION
	(Submit in Duplicate)		ER CASING		Ц	FRACTURE	TREAT		SIDETRACK TO REPAIR WELL
	Approximate date work will start:	L CAS	SING REPAIR			NEW CONS	TRUCTION		TEMPORARILY ABANDON
		CHA	ANGE TO PREVIOUS PL	ANS	Z	OPERATOR	CHANGE		TUBING REPAIR
		CHA	ANGE TUBING			PLUG AND	ABANDON		VENT OR FLARE
Z	SUBSEQUENT REPORT	☐ CHA	ANGE WELL NAME			PLUG BACH	(\Box	WATER DISPOSAL
	(Submit Original Form Only)	CHA	ANGE WELL STATUS		$\overline{\Box}$	PRODUCTION	ON (START/RESUME)	$\overline{}$	WATER SHUT-OFF
	Date of work completion:	I	MMINGLE PRODUCING F	CRMATIONS	Ħ		ION OF WELL SITE	금	
			VERT WELL TYPE		H		TE - DIFFERENT FORMATION	. ·	OTHER:
	DESCRIBE PROPOSED OR CO								
Eff	ective August 1,2004, t	he opera	ator changed fro	om Chevro	n U	.S.A. Ind	to XTO ENERGY	INC.	
for	all wells on the attache	d list.							
RI	M #579173								
Ψ.	.WI #01011Q								
Sta	ate and Fee Bond #104:	312762							
	•								
V.	all factor	_							
	V								
Ke	nneth W. Jackson	Regulato	ory Specialist C	hevronTe	cacc	for Che	evron U.S.A. Inc.	NOZ	110
			-						<u> </u>
	-10	~1	1 7	1.11	_		1/5-1	$\overline{\mathcal{O}}$	
NAM	E (PLEASE PRINT)	105	40, We	41h		TITLE	· VICE f	re.	sident lang
	true on	0	llac #				0/10/	01/	
SIGN	ATURE Y CHILD	Δ \downarrow	22011-			DATE	0/00/0	-4	
	——————————————————————————————————————	<u> </u>				·	£		

(5/2000)

APPROVED 91301 2004

Carlene Russell

Division of Oil, Gas and Mining (See Instead Russell, Engineering Technician)

(See Instructions on Reverse Side)

RECEIVED SEP 2 8 2004

	Well Name	Well Type	County Name	Otr/Otr	Section	Twn-Rng
API Well Number 43-015-30242-00-00		Gas Well	EMERY	SESE	10	17S-8E
43-015-30243-00-00	FEDERAL B21-3	Gas Well	EMERY	NESW	21	198-7E
43-015-30244-00-00	FEDERAL A26-2	Gas Well	EMERY	SESW	26	18S-7E
43-015-30245-00-00	FEDERAL C23-8	Gas Well	EMERY	NENW	23	18S-7E
43-015-30246-00-00	FEDERAL A26-4	Gas Well	EMERY	SWSE	26	18S-7E
43-015-30247-00-00	FEDERAL A35-6	Gas Well	EMERY	NWNW	35	18S-7E
43-015-30248-00-00	FEDERAL A35-5	Gas Well	EMERY	NWNE	35	18S-7E
43-015-30249-00-00	FEDERAL A34-7	Gas Well	EMERY	NENE	34	18S-7E
43-015-30258-00-00	UTAH FED P 10-47	Gas Well	EMERY	NWNW	10	18S-7E
43-015-30259-00-00	A L JENSEN 27-9	Gas Well	EMERY	SESE	27	21S-6E
43-015-30268-00-00	ST OF UT T 36-10	Gas Well	EMERY	SWNE	36	16S-7E
43-015-30270-00-00	ST OF UT U 2-11	Gas Well	EMERY	NWNW	2	18S-7E
43-015-30272-00-00	SWD 1	Water Disposal Well	EMERY	SWNW	24	18S-7E
43-015-30274-00-00		Gas Well	EMERY	SESW	8	18S-7E
43-015-30275-00-00		Gas Well	EMERY	NWNE	9	18S-7E
	UTAH FED P 10-42	Gas Well	EMERY	NWNE	10	18S-7E
	UTAH FED P 10-43	Gas Well	EMERY	NWSE	10	18S-7E
	UTAH FED Q 4-44	Gas Well	EMERY	SESE	4	18S-7E
	UTAH FED D 34-12	Gas Well	EMERY	SESE	34	17S-7E
	UTAH FED D 35-13	Gas Well	EMERY	SWSW	35	17S-7E
	UTAH FED D 35-14	Gas Well	EMERY	NWNW	35	17S-7E
	UTAH FED D 35-15	Gas Well	EMERY	SWSE	35	17S-7E
	UTAH FED M 6-25	Gas Well	EMERY	SENE	6	17S-8E
	UTAH FED H 6-21	Gas Well	EMERY	SESW	~6	20S-7E
13-015-30303-00-00		Water Disposal Well		SENE	11	18S-7E
3-015-30306-00-00		Gas Well	EMERY	NWNE	2	18S-7E
3-015-30308-00-00		Gas Well	EMERY	NESW	2	18S-7E
3-015-30309-00-00	L & M CURTIS 10-58	Gas Well Gas Well	EMERY	NWSE	2 10	18S-7E
		Gas Well	EMERY EMERY	SW\$W SENW	16	18\$-7E 18\$-7E
	ST OF UT X 16-66	Gas Well			16	
3-015-30312-00-00 3-015-30313-00-00	ST OF UT X 16-65	Gas Well	EMERY EMERY	NWNE SESE	14	18S-7E 18S-7E
		Gas Well			14	
3-015-30314-00-00 3-015-30315-00-00		Gas Well	EMERY EMERY	NWNW SENE	23	18S-7E 18S-7E
3-015-30316-00-00		Gas Well	EMERY	NWNW	23 24	18S-7E
	D & A JONES 15-68	Gas Well	EMERY	NENW	15	18S-7E
	D&D CURTIS 14-54	Gas Well	EMERY	SENE	14	18S-7E
	P & K PEACOCK 8-62	Gas Well	EMERY	SWNE	8	18S-7E
	PEACOCK TRUST 9-60	Gas Well	EMERY	NWSW	9	18S-7E
3-015-30323-00-00		Water Disposal Well		NWNW	14	18S-7E
	R G NORRIS 14-40	Gas Well	EMERY	NESW	14	18S-7E
	L & M CURTIS 15-67	Gas Well	EMERY	NENE	15	18\$-7E
	PEACOCK TRUST 8-61	Gas Well	EMERY	NESE	8	18S-7E
3-015-30327-00-00		Gas Well	EMERY	NENE	7	18S-7E
	PEACOCK TRUST 8-63	Gas Well	EMERY	SENW	8	18S-7E
	D & A JONES 9-59	Gas Well	EMERY	SESE	9	18S-7E
	UTAH STATE 1-76	Gas Well	EMERY	NWNW	ī	18S-7E
	UTAH STATE 36-78	Gas Well	EMERY	SWSW	36	17S-7E
3-015-30383-00-00		Gas Well	EMERY	SESE	3	18S-7E
3-015-30384-00-00		Gas Well	EMERY	NENE	3	18S-7E
13-015-30385-00-00		Gas Well	EMERY	SWSE	11	18\$-7E
3-015-30386-00-00	USA 11-71	Gas Well	EMERY	SWNE	11	18S-7E
3-015-30387-00-00	USA 11-72	Gas Well	EMERY	NWNW	11	18S-7E
3-015-30388-00-00		Gas Well	EMERY	NWSW	11	18S-7E
3-015-30389-00-00		Gas Well	EMERY	SENE	34	17S-7E
3-015-30390-00-00		Gas Well	EMERY	SESW	34	17S-7E
3-015-30393-00-00	ST OF UT EE 06-138	Gas Well	EMERY	NENW	6	17S-9E
3-015-30396-00-00	ST OF UT AA 07-106	Gas Well	EMERY	NWNE	7	17S-8E
3-015-30437-00-00	ST OF UT BB 09-119	Gas Well	EMERY	SESW	9	17\$-8E
3-015-30438-00-00	ST OF UT CC 10-124	Gas Well	EMERY	SENE	10	17S-8E
3-015-30439-00-00	ST OF UT DD 31-98	Gas Well	EMERY	NWSW	31	17S-8E
3.016.30440.00.00	FEDERAL T 27-85	Gas Well	EMERY	SENW	27	18S-7E
43-013-30440-00-00	LIDEL OF 402	Gas Well	EMERY	NENW	6	17S-8E
43-015-30441-00-00	OF &L 00-102					
		Gas Well Gas Well	EMERY EMERY	NESE SWNE	6 9	17S-8E 17S-8E

•					
API Well Number Well Name	Well Type	County Name		Section	Twn-Rng
43-015-30444-00-00 ST OF UT BB 09-120	Gas Well	EMERY	NESE	9	17S-8E
43-015-30445-00-00 FEDERAL A 26-88	Gas Well	EMERY	SWNW	26	18S-7E
43-015-30446-00-00 FEDERAL A 35-89	Gas Well	EMERY	NWSW	35	18S-7E
43-015-30447-00-00 FEDERAL C 23-84	Gas Well	EMERY	NESW	23	18S-7E
43-015-30448-00-00 FEDERAL P 3-92	Gas Well	EMERY	SESW	3	18S-7E
43-015-30449-00-00 FEDERAL P 3-93	Gas Well	EMERY	SWNW	3	18S-7E
43-015-30450-00-00 FEDERAL T 21-94	Gas Well	EMERY	NENE	21	18S-7E
43-015-30451-00-00 FEDERAL T 22-69	Gas Well	EMERY	NENE	22	18S-7E
43-015-30452-00-00 FEDERAL T 22-83	Gas Well	EMERY	SWSE	22	18S-7E
43-015-30453-00-00 FEDERAL T 22-91	Gas Well	EMERY	NENW	22	18S-7E
43-015-30454-00-00 ST OF UT CC 10-123	Gas Well	EMERY	NWNW	10	17S-8E
43-015-30455-00-00 FEDERAL T 27-86	Gas Well	EMERY	SENE	27	18S-7E
43-015-30456-00-00 FEDERAL T 27-87	Gas Well	EMERY	SESE	27	18S-7E
43-015-30457-00-00 FEDERAL T 27-90	Gas Well	EMERY	NWSW	27	18S-7E
43-015-30458-00-00 ST OF UT FF 10-125	Gas Well	EMERY	NESW	10	17S-8E
43-015-30459-00-00 ST OF UT FF 11-129	Gas Well	EMERY	NWNW	11	17S-8E
43-015-30462-00-00 ST OF UT FF 11-130	Gas Well	EMERY	NWSW	11	175-8E
43-015-30478-00-00 GARDNER TRUST ET AL 16-121	Gas Well	EMERY	NENE	16	17S-8E
43-015-30479-00-00 ST OF UT BB 05-107	Gas Well	EMERY	SENW	5	17S-8E
43-015-30480-00-00 ST OF UT BB 05-108	Gas Well	EMERY	NWSW	5	17S-8E
43-015-30481-00-00 ST OF UT BB 05-109	Gas Well	EMERY	SENE	5	17S-8E
43-015-30482-00-00 ST OF UT BB 05-110	Gas Well	EMERY	SWSE	5	17S-8E 17S-8E
43-015-30483-00-00 UP&L 06-103	Gas Well	EMERY	NESW	6	17S-8E 17S-8E
43-015-30484-00-00 AMERICA WEST GROUP ET AL 15-126	Gas Well	EMERY	NENW	15	
43-015-30485-00-00 W H LEONARD ET AL 15-127	Gas Well	EMERY	NENE	15	17S-8E
43-015-30486-00-00 ROWLEY 08-111	Gas Well	EMERY	SENW	8	17S-8E
43-015-30490-00-00 SWD 4	Water Disposal Well	EMERY	SENE	15	17S-8E
43-015-30495-00-00 SEELEY 08-112	Gas Well	EMERY	NENE	8	17S-8E
43-015-30496-00-00 ST OF UT BB 08-113	Gas Well	EMERY	NWSE	8	17S-8E
43-015-30497-00-00 ST OF UT AA 07-105	Gas Well	EMERY	SWNW	7	17S-8E
43-015-30498-00-00 ST OF UT 01-97	Gas Well	EMERY	SENE	1	18S-7E
43-015-30499-00-00 ST OF UT GG 03-122	Gas Well	EMERY	SWSW	3	17S-8E
43-015-30500-00-00 ST OF UT HH 03-133	Gas Well	EMERY	SWSE	3	17\$-8E
43-015-30501-00-00 SEELEY FARMS 09-117	Gas Well	EMERY	NWNW	9	17S-8E
43-015-30502-00-00 ST OF UT GG 15-128	Gas Well	EMERY	NWSW	15	17S-8E
43-015-30503-00-00 ST OF UT BB 04-116	Gas Well	EMERY	SWSE	4	17S-8E
43-015-30504-00-00 ST OF UT GG 04-115	Gas Well	EMERY	NESW	4	17S-8E
43-015-30505-00-00 BURNSIDE 14-132	Gas Well	EMERY	NWNE	14	17S-8E
43-015-30506-00-00 ST OF UT T 36-100	Gas Well	EMERY	NESE	36	16S-7E
43-015-30507-00-00 UT FED KK 01-140	Gas Well	EMERY	SENW	1	17\$-7E
43-015-30508-00-00 ST OF UT II 36-96	Gas Well	EMERY	NWSE	36	17\$-7E
43-015-30509-00-00 ST OF UT II 36-95	. Gas Well	EMERY	NWNE	36	17S-7E
43-015-30510-00-00 SWD 5	Water Disposal Well	EMERY	SESE	23	17S-8E
43-015-30511-00-00 UP&L FED 01-101	Gas Well	EMERY	SENE	1	17S-7E
43-015-30520-00-00 ST OF UT SS 22-165	Gas Well	EMERY	NENE	22	17S-8E
43-015-30521-00-00 ZIONS FED 35-135R (RIG SKID)	Gas Well	EMERY	NESW	35	16S-7E
43-015-30528-00-00 ST OF UT 14-170	Gas Well	EMERY	SWSE	14	17S-8E
43-015-30529-00-00 CONOVER 14-171	Gas Well	EMERY	NWSW	14	17S-8E
43-015-30530-00-00 ST OF UT 36-139	Gas Well	EMERY	NWSW	36	16S-7E
43-015-30533-00-00 ST OF UT FO 02-186	Gas Well	EMERY	NENW	2	17S-8E
43-015-30549-00-00 ST OF UT JJ 03-160	Gas Well	EMERY	NWNW	3	17S-8E
43-015-30550-00-00 ST OF UT 36-138	Gas Well	EMERY	SWNW	36	16S-7E
43-015-30551-00-00 UT FED P 12-153	Gas Well	EMERY	NWNW	12	18S-7E
43-015-30552-00-00 ST OF UT CC 03-161	Gas Well	EMERY	SENE	3	17S-8E
43-015-30553-00-00 ST OF UT FO 02-188	Gas Well	EMERY	NWSW	2	17S-8E
43-015-30554-00-00 ST OF UT BB 04-158	Gas Well	EMERY	NENW	4	17S-8E
43-015-30555-00-00 ST OF UT BB 04-159	Gas Well	EMERY	SWNE	4	17S-8E
43-015-30556-00-00 MALONE 14-131	Gas Well	EMERY	SWNW	14	17S-8E
43-015-30559-00-00 UT FED KK 01-141	Gas Well	EMERY	SESE	1	17S-7E
43-015-30560-00-00 ST OF UT FO 02-189	Gas Well	EMERY	SWNE	2	17S-8E
43-015-30561-00-00 ST OF UT GG 15-184	Gas Well	EMERY	NWSE	15	17S-8E
43-015-30562-00-00 STATE OF UTAH "LL" 31-20	Gas Well	EMERY	NWNW	31	17S-8E
43-015-30566-00-00 ST OF UT "KK" 32-145	Gas Well	EMERY	NESE	32	16S-8E
43-015-30567-00-00 ST OF UT "KK" 32-144	Gas Well	EMERY	SWSW	32	16S-8E
43-015-30568-00-00 ST OF UT "AA" 18-153	Gas Well	EMERY	SESW	18	17S-8E
40-010-00000-00-00 01 01 01 01 10 100					

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API Well Number	Well Name	Well Type	County Name	Qtr/Qtr	Section	Twn-Rng
	ST OF UT "AA" 07-146 "	Gas Well	EMERY	NESW	7	17S-8E
	ST OF UT "AA" 18-154	Gas Well	EMERY	NESE	18	17S-8E
	ST OF UT "AA" 17-156	Gas Well	EMERY	SWSE	17	17S-8E
	ST OF UT "AA" 18-149	Gas Well	EMERY	SENW	18	17S-8E
	ST OF UT "MM" 20-192	Gas Well	EMERY	SENW	20	17S-8E
	ST OF UT "MM" 20-193	Gas Well	EMERY	NENE	20	17S-8E
	ST OF UT MM 20-194	Gas Well	EMERY	NWSW	20	17S-8E
	ST OF UT AA 07-147	Gas Well	EMERY	SESE	7	17S-8E
	ST OF UT BB 08-148	Gas Well	EMERY	NWSW	8	17S-8E
43-015-30578-00-00	ST OF UT AA 18-150	Gas Well	EMERY	NWNE	18	17S-8E
	ST OF UT NN 19-157	Gas Well	EMERY	NENE	19	17S-8E
	ST OF UT AA 17-152	Gas Well	EMERY	NENE	17	17S-8E
43-015-30581-00-00	ST OF UT OO 16-190	Gas Well	EMERY	NESW	16	17S-8E
	ST OF UT PP 16-191	Gas Well	EMERY	NESE	16	17S-8E
	ST OF UT AA 17-151	Gas Well	EMERY	NENW	17	17S-8E
43-015-30585-00-00	ST OF UT MM 21-195	Gas Well	EMERY	NENW	21	17S-8E
43-015-30586-00-00	ST OF UT GG 21-163	Gas Well	EMERY	NENE	21	17S-8E
	ZIONS FED 35-137 -	Gas Well	ËMERY	NESE	35	16S-7E
43-015-30589-00-00	UTAH FED 01-205D ~	Gas Well	EMERY	SENW	1	17S-7E
43-015-30590-00-00		Gas Well	EMERY	NWNW	2	17S-7E
43-015-30591-00-00	UTAH FED 12-197	Gas Well	EMERY	SENE	12	17S-7E
43-015-30592-00-00	ST OF UT QQ 31-201-	Gas Well	EMERY	SESW	31	16S-8E
	ST OF UT AA 17-155	Gas Well	EMERY	SW\$W	17	17S-8E
43-015-30601-00-00		Gas Well	EMERY	NESE	12	17S-7E
43-015-30602-00-00		Gas Well	EMERY	NENW	35	16S-7E
43-015-30603-00-00		Gas Well	EMERY	SWNE	35	16S-7E
43-015-30604 -00-00		Gas Well	EMERY	NESE	12	17S-7E
43-015-30605-00-00	UT FED 12-198D	Gas Well	EMERY	SENE	12	17S-7E
43-015-30606-00-00	ST OF UT QQ 31-204D~	Gas Well	EMERY	SESW	31	16S-8E
43-015-30607-00-00	ST OF UT QQ 31-203D~	Gas Well	EMERY	SESW	31	16S-8E
	ST OF UT QQ 31-202D	Gas Well	EMERY	SESW	31	16S-8E
43-015-30609-00-00	ST OF UT HH 23-166	Gas Well	EMERY	NENW	23	17S-8E

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1

Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET

1. GLH 2. CDW 3. FILE

X Change of Operator (Well Sold)

Designation of Agent/Operator

Operator Name Change

Merger

The operator of the well(s) listed be	elow has changed	, effect	tive:	8/1/2004						
FROM: (Old Operator):				TO: (New Operator):						
N0210-Chevron USA, Inc				N2615-XTO E						
11111 S Wilcrest	2700 F	armington A	ve, Bldg K	Suite 1						
Houston, TX 77099	Farmin	gton, NM 8'	7401							
Phone: 1-(281) 561-4991		Phone: 1-(505)	324-1090							
	CA No.	,		Unit:						
WELL(S)							•			
NAME	SEC '	TWN	RNG	API NO	ENTITY	LEASE	WELL	WELL		
					NO	TYPE	TYPE	STATUS		
ST OF UT T 36-10	36 1	60S (070E	4301530268	11866	State	GW	P		
SWD 4	15 1	70S (080E	4301530490	13366	Fee	WD	A		
SWD 5	23 1	70S (080E	4301530510	13403	Fee	WD	A		
ST OF UT U 2-11	02 1	80S (070E	4301530270	11865	State	GW	P		
ST OF UT U 2-48	02 1	80S (070E	4301530306	12145	State	GW	P		
OT OF UT II 2 CO	00 1	000	2705	4201520200	10147	G/ /	(33)7	16		

SWD 4	15	170S	080E	4301530490	13366	Fee	WD	Α	
SWD 5	23	170S	080E	4301530510	13403	Fee	WD	A	
ST OF UT U 2-11	02	180S	070E	4301530270	11865	State	GW	P	
ST OF UT U 2-48	02	180S	070E	4301530306	12145	State	GW	P	
ST OF UT U 2-50	02	180S	070E	4301530308	12147	State	GW	P	
PEACOCK 7-64	07	180S	070E	4301530327	12199	Fee	GW	P	
P & K PEACOCK 8-62	08	180S	070E	4301530320	12238	Fee	GW	P	
PEACOCK TRUST 8-61	08	180S	070E	4301530326	12209	Fee	GW	P	
PEACOCK TRUST 8-63	08	180S	070E	4301530328	12205	Fee	GW	P	
PEACOCK TRUST 9-60	09	180S	070E	4301530321	12206	Fee	GW	P	
D & A JONES 9-59	09	180S	070E	4301530329	12202	Fee	GW	S	
UP&L14-55	14	180S	070E	4301530314	12148	Fee	GW	P	
D&D CURTIS 14-54	14	180S	070E	4301530319	12346	Fee	GW	S	
SWD 2	14	180S	070E	4301530323	12279	Fee	WD	A	
R G NORRIS 14-40	14	180S	070E	4301530324	12334	Fee	GW	P	
D & A JONES 15-68	15	180S	070E	4301530318	12200	Fee	GW	S	
L & M CURTIS 15-67	15	180S	070E	4301530325	12278	Fee	GW	P	
UP&L23-51	23	180S	070E	4301530315	12208	Fee	GW	P	
U P & L 24-57	24	180S	070E	4301530316	12207	Fee	GW	P	
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

(R649-8-10) Sundry or legal documentation was received from the FORMER operator on: 9/28/2004
 (R649-8-10) Sundry or legal documentation was received from the NEW operator on: 9/28/2004

3.	The new company was	checked on the l	Department of	Commerce, Div	vision of Corp	porations Databas	se on: 7/1	9/2004
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4. Is the new operator registered in the State of Utah: YES Business Number: 5655506-0143

5. If NO, the operator was contacted contacted on:

6a. (R649-9-2)Waste Management Plan has been received on:	to follow
6b. Inspections of LA PA state/fee well sites complete on:	being worked

7.	Federal and Indian Lease Wells: The BLM and or the BIA has approved the merger, name change,
	or operator change for all wells listed on Federal or Indian leases on: BLM not yet BIA n/a
8.	Federal and Indian Units:
	The BLM or BIA has approved the successor of unit operator for wells listed on:
9.	Federal and Indian Communization Agreements ("CA"):
	The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
10	. Underground Injection Control ("UIC") The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 9/28/2004
D/	ATA ENTRY:
1.	Changes entered in the Oil and Gas Database on: 9/30/2004
2.	Changes have been entered on the Monthly Operator Change Spread Sheet on: 9/30/2004
3.	Bond information entered in RBDMS on: 9/30/2004
4.	Fee/State wells attached to bond in RBDMS on: 9/30/2004
5.	Injection Projects to new operator in RBDMS on: 9/30/2004
6.	Receipt of Acceptance of Drilling Procedures for APD/New on: 9/28/2004
FI	EDERAL WELL(S) BOND VERIFICATION:
1.	Federal well(s) covered by Bond Number: 579173
IN	DIAN WELL(S) BOND VERIFICATION:
1.	Indian well(s) covered by Bond Number:
	EE & STATE WELL(S) BOND VERIFICATION:
1.	(R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 104312762
2.	The FORMER operator has requested a release of liability from their bond on: The Division sent response by letter on: n/a
L	EASE INTEREST OWNER NOTIFICATION:
3.	(R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 10/5/2004
CC	DMMENTS:
_	
_	

Division of Oil, Gas and Mining PHONE CONVERSATION DOCUMENTATION FORM

Route	original/copy to:		
(Loc.	Vell File 5WD 5 Sec 23 Twp 175 Rng 8E No.) 43-015-30510	Suspense (Return Date) (To-Initials)	
1.	Date of Phone Call: 3/10/02	5 Time:	10:30
2.	DOGM Employee (name) Talked to: Name	([][Initiated Call) - Phone 1	
3.	Topic of Conversation:		
4.	_ a watestinto the i	0.5 well conv. to denced inj. They plant of the new Construct the Swo! terline is completed en construction begins	r tature & will submit reports

STATE OF HEAL

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DEPARTMENT OF NATURAL RESOURCE		
DIVISION OF OIL, GAS AND MIN	110	5. LEASE DESIGNATION AND SERIAL NUMBER: UIC-296.1
SUNDRY NOTICES AND REPORTS	ON WELLS	g. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for proposals to drill new wells, significantly deepen existing wells below currer drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL for	t bottom-hole depth, reenter plugged wells, or to n for such proposals.	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL OIL WELL GAS WELL OTHER		8. WELL NAME and NUMBER: SWD #5
2. NAME OF OPERATOR: XTO ENERGY INC.		9. API NUMBER: 4301530510
3. ADDRESS OF OPERATOR: 2700 Farmington Ave. Bldg k _{CATY} Farmington STATE NM 2IP 8	7401 (505) 324-1090	10. FIELD AND POOL, OR WILDCAT: BUZZARD BENCH
4. LOCATION OF WELL	0 /	
FOOTAGES AT SURFACE: 101' FSL & 1108' FEL		COUNTY: EMERY
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23 175 08	E / Å	STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
NOTICE OF INTENT	DEEPEN	REPERFORATE CURRENT FORMATION
(Submit in Duplicate)	FRACTURE TREAT	SIDETRACK TO REPAIR WELL
Approximate date work will start: CASING REPAIR	NEW CONSTRUCTION	TEMPORARILY ABANDON TUBING REPAIR
CHANGE TO PREVIOUS PLANS	OPERATOR CHANGE	VENT OR FLARE
CHANGE TUBING SUBSEQUENT REPORT CHANGE WELL NAME	PLUG AND ABANDON PLUG BACK	WATER DISPOSAL
(Submit Original Form Only)	PRODUCTION (START/RESUME)	WATER SHUT-OFF
Date of work completion: COMMINGLE PRODUCING FORMATIONS	RECLAMATION OF WELL SITE	OTHER: RETURN WELL TO
9/10/2005 CONVERT WELL TYPE	RECOMPLETE - DIFFERENT FORMATION	PRODUCTION
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pe	tinent details including dates, depths, volumes	s, etc.
XTO Energy Inc. reactivated this well on 9/10/05. This well acquired the well from Chevron Texaco on 8/17/2004. This reactivated in the following manner:	s a water injection well and has in well injects into the Navajo Sand	not been active since XTO s (perfs @ 5994' - 6690'). XTO ໂຄໄໄວພິດຊູ M
MIRU Halliburton acid truck. Tested lines to 6,000 psig for Max injection pressure 1,123 psig. RDMO acid truck. SW	0". Pumped 432 BPW down tub @ 11:00 a.m., 9/9/05. RWTP o	on 9/10/2005.
/		
/		
/	\	
V		
,		
NAME (PLEASE PRINT HOWLY C. PERKINS)	TITLE Regulatory Comp	liance Tech
Olly C. La Aria	DATE 9/15/2005	
SIGNATURE	VA.15	
(This space for State use only)		RECEIVED

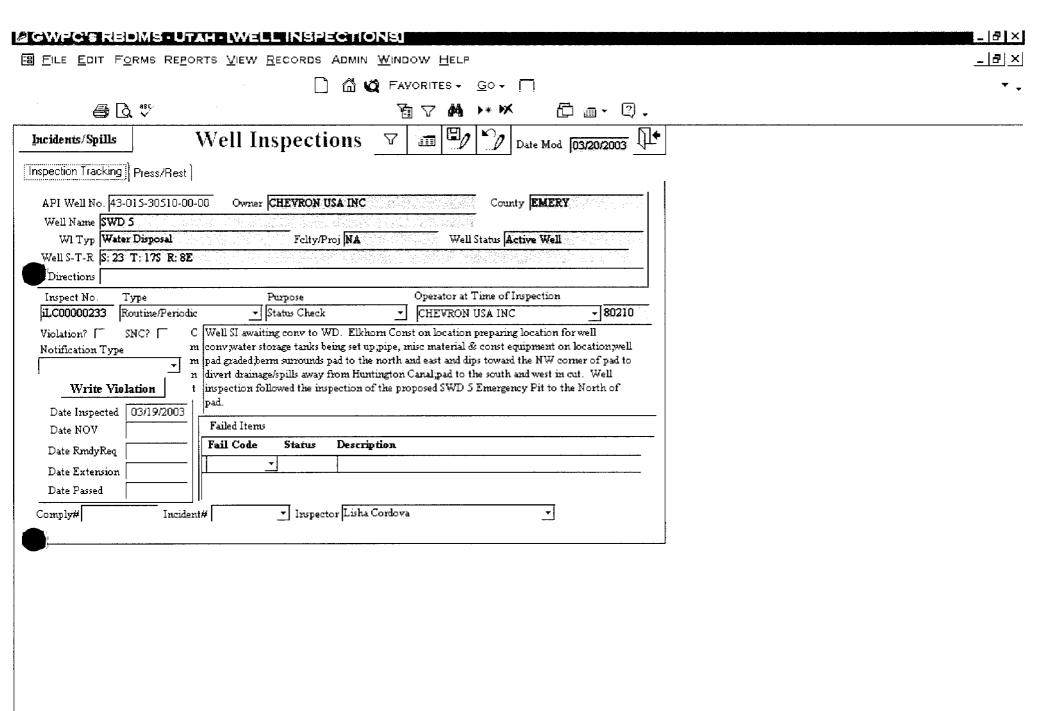
SEP 1 9 2005DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

DIVISION OF OIL, GAS		SE DESIGNATION AND SERIAL NUMBER:					
SUNDRY NOTICES AND R	6. IF I	NDIAN, ALLOTTEE OR TRIBE NAME:					
Do not use this form for proposals to drill new wells, significantly deepen existing drill horizontal laterals. Use APPLICATION FOR PER		IT or CA AGREEMENT NAME:					
1. TYPE OF WELL OIL WELL GAS WELL 🗹		ILL NAME and NUMBER:					
2. NAME OF OPERATOR: XTO ENERGY INC.	Amende	<i>"</i>	NUMBER: 3-015-305/0				
3. ADDRESS OF OPERATOR:	PH	ONE NUMBER: 10. FI	ELD AND POOL, OR WILDCAT:				
2700 Farmington Ave. Bldg k _{CITY} Farmington _{STAT} 4. LOCATION OF WELL	E NM ZIP 87401 (5	505) 324-1090	1 0,000				
FOOTAGES AT SURFACE: 101' FSL & 1108' FEL		COUN	iτy: EMERY				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESE 23	17S 08E	STATE	: E: UTAH				
11. CHECK APPROPRIATE BOXES TO	INDICATE NATURE OF	NOTICE, REPORT, C	OR OTHER DATA				
TYPE OF SUBMISSION	TYPE	E OF ACTION					
□ NOTICE OF INTENT □ ACIDIZE	DEEPEN		REPERFORATE CURRENT FORMATION				
(Submit in Duplicate) ALTER CASING	FRACTURE TRE		SIDETRACK TO REPAIR WELL				
Approximate date work will start: CASING REPAIR	NEW CONSTRU	_	TEMPORARILY ABANDON				
CHANGE TO PREVIOUS PL	<u></u>	<u></u>	TUBING REPAIR VENT OR FLARE				
✓ SUBSEQUENT REPORT CHANGE WELL NAME	☐ PLUG AND ABA ☐ PLUG BACK	NDON	WATER DISPOSAL				
(Submit Original Form Only) CHANGE WELL STATUS		START/RESUME)	water shut-off				
Date of work completion:			OTHER: CLEAN OUT PERFS				
9/10/2005 CONVERT WELL TYPE		- DIFFERENT FORMATION					
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. This well is a water injection well and has not been active since XTO Energy acquired the well from Chevron Texaco on 8/17/2004. XTO performed the following work to clean out perfs & start conversion: MIRU Halliburton acid truck. Tested lines to 6000 psig for 10 minutes. Pumped 432 BPW down tubing. AIR 6.5 BPM. AIP 923 psig. Max injection pressure 1123 psig. RDMO acid truck. SWI @ 11 am, 9/9/05. XTO Energy Inc. will notify DOGM when they are ready to do a mechanical integrity test on this well in preparation for return to injecting.							
NAME (BLEASE BONT) HOLLY C. REPKINS	, 10.00	REGULATORY COM	PLIANCE TECH				
La Cara Range	TITLE	9/23/2005	EINIVOL ILOIT				
SIGNATURE 7 50 50 50 50 50 50 50 50 50 50 50 50 50	DATE						

(This space for State use only)

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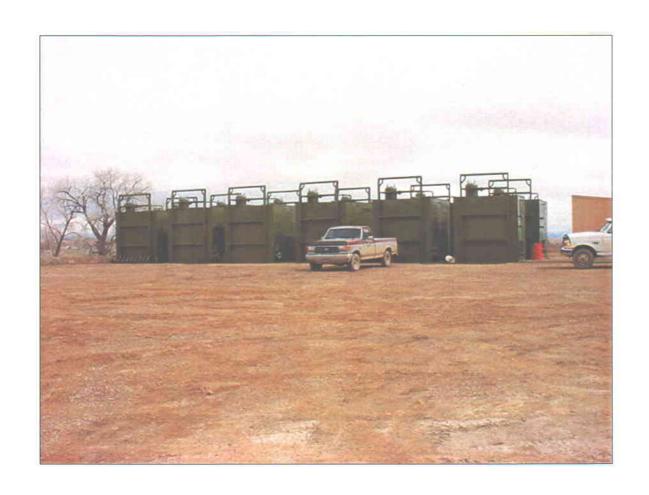
CAPS

NUM

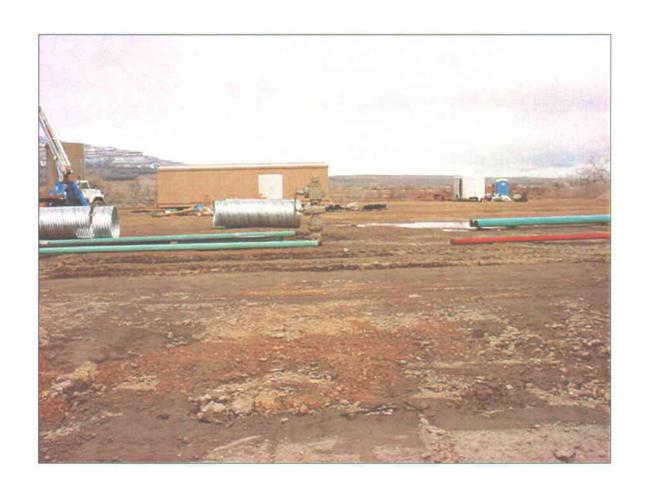
SWD 5 EAST/SE VIEW (3-19-2003)



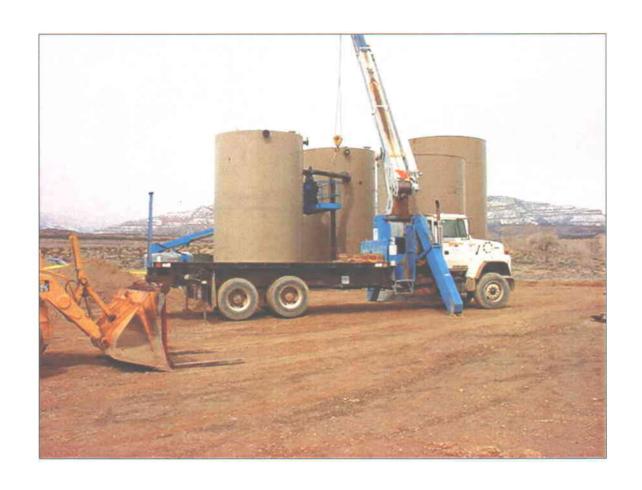
SWD 5 NE VIEW (3-19-2003)



SWD 5 NORTH VIEW (3-19-2003)



SWD 5 NW VIEW (3-19-2003)



SWD 5 SOUTH VIEW (3-19-2003)



SWD 5 WEST VIEW (3-19-2003)





State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

June 7, 2010

XTO Energy Inc 382 CR 3100 Aztec, NM 87410

175 8E 23

SUBJECT:

Pressure Test for Mechanical Integrity, SWD 5 (API# 43-015-30510) Well,

Emery County, Utah:

To Whom It May Concern:

The Underground Injection Control Program, which the Division of Oil, Gas and Mining (DOGM) administers in Utah, requires that all Class II injection wells demonstrate mechanical integrity. Rule R649-5-5.3 of the Oil and Gas Conservation General Rules requires that the casing-tubing annulus above the packer be pressure tested at a pressure equal to the maximum authorized injection pressure or 1,000 psi, whichever is lesser, provided that no test pressure is less than 300 psi. This test shall be performed at least every five-year period beginning October 1982. The following well now requires a current test:

SWD 5 43-015-30510

Please make arrangements and ready wells for testing during the week of August 30th, 2010, as outlined below:

- 1. Operator must furnish connections, and accurate pressure gauges, hot oil truck (or other means of pressuring annulus), along with personnel to assist in opening valves, etc.
- 2. The casing-tubing annulus shall be filled prior to the test date to expedite testing, as each well will be required to hold pressure for a minimum of 15 minutes.
- 3. If mechanical difficulties or workover operations make it impossible for the well(s) to be tested on this date the test(s) may be rescheduled.
- 4. Company personnel should meet a DOGM representative(s) at the field office or other location as negotiated.



Page 2 June 7, 2010 XTO Energy Inc

5. All bradenhead valves with exception of the tubing on the injection well(s) must be shut-in 24 hours prior to testing.

Please contact me at (435) 820-0862 to arrange a meeting time and place or to negotiate a different date, if the date(s) specified is unacceptable.

Sincerely,

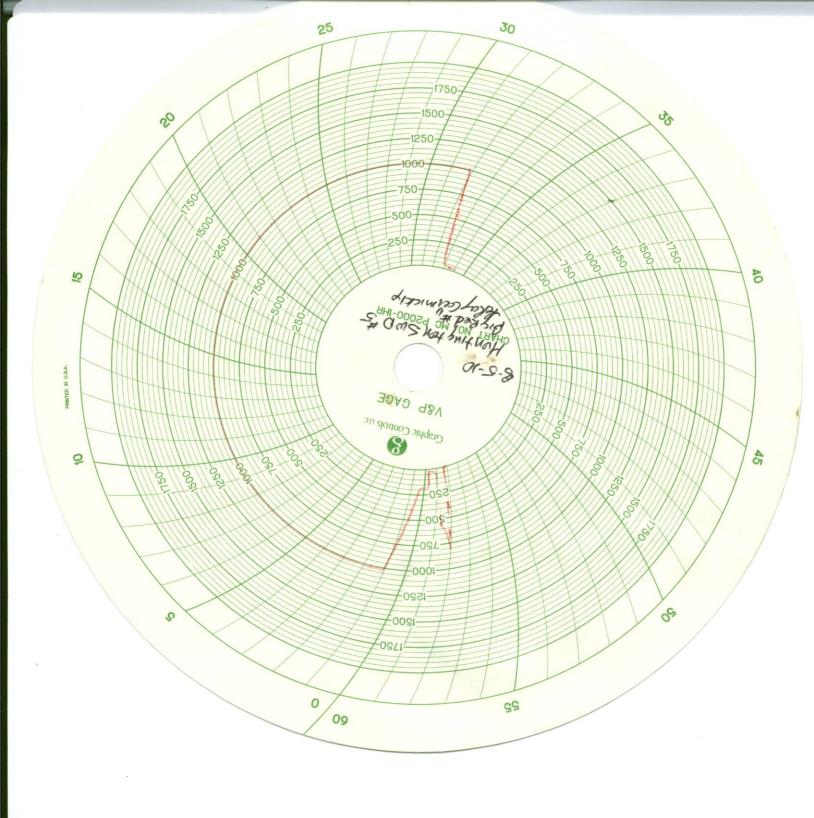
Bart Kettle

Environmental Scientist

bk/dj/js

cc: Dan Jarvis, Operations Manager Well File

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			FORM 9		
			5.LEASE DESIGNATION AND SERIAL NUMBER: FEE		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for proposition bottom-hole depth, reenter plu DRILL form for such proposals.	7.UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: SWD 5				
2. NAME OF OPERATOR: XTO ENERGY INC	9. API NUMBER: 43015305100000				
3. ADDRESS OF OPERATOR: 382 Road 3100 , Aztec, NM, 8	9. FIELD and POOL or WILDCAT: BUZZARD BENCH				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0101 FSL 1108 FEL	COUNTY: EMERY				
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 23 Township: 17.0S Range: 08.0E Meridian: S			STATE: UTAH		
CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA					
TYPE OF SUBMISSION	TYPE OF ACTION				
	☐ ACIDIZE	ALTER CASING	☐ CASING REPAIR		
NOTICE OF INTENT Approximate date work will start:	☐ CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
✓ SUBSEQUENT REPORT	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
Date of Work Completion: 8/5/2010	☐ DEEPEN ☐ OPERATOR CHANGE	FRACTURE TREAT PLUG AND ABANDON	 □ NEW CONSTRUCTION □ PLUG BACK 		
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION		
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON		
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL		
DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	APD EXTENSION		
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: MIT		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. performed a MIT on this well on 8/5/2010. The test was to 1,000 psi for 34 minutes. Please see the attached MIT chart. Accepted by the Utah Division of Oil, Gas and Mining Date: August 11, 2010 By:					
NAME (PLEASE PRINT) Barbara Nicol	PHONE NUMBER 505 333-3642	TITLE Regulatory Compliance Tech			
SIGNATURE N/A		DATE 8/9/2010			



STATE OF UTAH DIVISION OF OIL GAS AND MINING

INJECTION WELL - PRESSURE TEST

Well Name: Hunfington SWD #5 API Number: 43-015-30510 Qtr/Qtr: 5E/SE Section: 23 Township: 175 Range: \$8 Company Name: XTO Energy						
Lease: State FeeX Federal Indian Inspector: Date: Date:						
Initial Conditions:						
Tubing - Rate: Pressure: psi						
Casing/Tubing Annulus - Pressure:psi						
Conditions During Test:						
Time (Minutes)	Annulus Pressure	Tubing Pressure				
0	1000					
5		**************************************				
10						
15	1000					
20	•					
25						
30	1000	Q_{ℓ}				
Results: (Pass)Fail	•					
Conditions After Test:						
Tubing Pressure: psi						
Casing/Tubing Annulus Pressure:psi						
COMMENTS:						
Dal Gray (XTO)						
Operator Representative						

Sundry Number: 64738 API Well Number: 43015305100000

			FORM 9		
DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING			5.LEASE DESIGNATION AND SERIAL NUMBER: FEE		
SUNDF	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for pro current bottom-hole depth, FOR PERMIT TO DRILL form	7.UNIT or CA AGREEMENT NAME:				
1. TYPE OF WELL Water Disposal Well	8. WELL NAME and NUMBER: SWD 5				
2. NAME OF OPERATOR: XTO ENERGY INC	9. API NUMBER: 43015305100000				
3. ADDRESS OF OPERATOR: PO Box 6501, Englewood,	9. FIELD and POOL or WILDCAT: BUZZARD BENCH				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0101 FSL 1108 FEL	COUNTY: EMERY				
QTR/QTR, SECTION, TOWNSI Qtr/Qtr: SESE Section: 2	STATE: UTAH				
11. CHEC	K APPROPRIATE BOXES TO INDICAT	E NATURE OF NOTICE, REPOR	RT, OR OTHER DATA		
TYPE OF SUBMISSION					
	ACIDIZE	ALTER CASING	CASING REPAIR		
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME		
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE		
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	New construction		
7/2/2015	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK		
	l <u></u>				
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION		
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	LI TEMPORARY ABANDON		
DRILLING REPORT	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL		
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION		
	WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: 5-yr MIT		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. XTO Energy Inc. performed a 5-year MIT on this well per the following: 7/2/2015: MIRU B&C quick test. PT line to 1,550 psig, gd tst. PT csg 1,000 psig for 20 min. Tstd gd. Witness by Bart Kettle w/DOGM. RDMO B&C quick test. Please see the attached MIT chart. PHONE NUMBER TITLE					
Barbara Nicol	PHONE NUMBE 303-397-3736	Regulatory Analyst			
SIGNATURE N/A		DATE 7/9/2015			

